

Flood Control Project Maintenance
Levee Inspections

Fall 2013 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

RD1001 Reclamation District No. 1001 Nicolaus	Overall LMA Rating	Total LMA Miles						
	U	44.03						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	6.54		6.54	14.85%	0.11	0.02		
Trim / Thin Trees	0.27		0.27	0.61%				
Encroachments	0.03		0.03	0.07%	2.93	0.02		
Animal Control	0.01		0.01	0.02%				
Slope Stability	0.05		0.05	0.11%				
Erosion / Bank Caving	0.01		0.01	0.02%				
<i>Supplemental</i>								
USACE Erosion Survey	1.94		1.94	4.41%				
DWR UCIP Field Study					0.32	0.04		
<i>LMA Totals:</i>	8.85	0.00	8.85	20.10%	3.36	0.08	0.00	0.00

Unit No. 01 Yankee Slough RB RD1001	Overall Unit Rating	Total Unit Miles						
	U	4.17						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	1.51		1.51	36.21%	0.06	0.01		
Encroachments					0.02			
Animal Control	0.01		0.01	0.24%				
<i>Unit Totals:</i>	1.52	0.00	1.52	36.45%	0.08	0.01	0.00	0.00

Unit No. 02 Yankee Slough LB RD1001	Overall Unit Rating	Total Unit Miles						
	A	3.66						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation					0.01	0.01		
Encroachments	0.01		0.01	0.27%	0.27	0.01		
<i>Supplemental</i>								
USACE Erosion Survey	0.03		0.03	0.82%				
DWR UCIP Field Study					0.01	0.01		
<i>Unit Totals:</i>	0.04	0.00	0.04	1.09%	0.29	0.03	0.00	0.00

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Levee Inspections

Fall 2013 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin (cont.)

Unit No. 06 East Side Canal RB	Overall Unit Rating	Total Unit Miles							
	A	4.80							
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence		
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles	
<i>Earthen Levee</i>									
Vegetation					0.01				
Trim / Thin Trees	0.01		0.01	0.21%					
Encroachments					0.04				
Slope Stability	0.03		0.03	0.63%					
<i>Supplemental</i>									
DWR UCIP Field Study					0.08	0.03			
<i>Unit Totals:</i>	0.04	0.00	0.04	0.83%	0.13	0.03	0.00	0.00	

**Flood Control Project Maintenance
Levee Inspections**

LMA District Cover Sheet

Fall 2013 Levee Inspection Results

Reclamation District No. 1001 Nicolaus

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			U	

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

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SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an induction of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Reclamation District No. 1001 Nicolaus

Waterway			Bank	Unit Miles
Unit No. 01 Yankee Slough			Right	4.17
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	05/23/2013 - 05/23/2013		10/16/2013 - 10/16/2013	
DWR Inspector	John Williamson		Matthew Hoffman	
Accompanied By	Diane Fales		Andrew Stresser RD 1001	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
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If additional items are noted, further documentation of those items must also be submitted.

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The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway								Bank	Unit Miles	Inspection Start/End	Inspector
L/MR No.	Levee Mile		Category	Item	* Location	* Rating	Action/Comment	GPS Latitude/Longitude		Issue No.	
	Start	End						Start	End		
1	Earthen Levee	Emergency Supplies & Equipment	LS A	Ma				°	°	1	
2	Earthen Levee	Flood Preparedness & Training	LS A	Ma				°	°	2	
3	Earthen Levee	Operations & Maintenance Manuals	LS A	Ma				°	°	3	
4	0.36 0.36	Earthen Levee	Encroachments	LS M	PR : Prunings	En		38.976349 ° 38.976349 ° 12 -121.474426 ° -121.474426 °	DWR ID: DWR_RD1001_01_s_2012_12		
5	0.41 0.41	Earthen Levee	Encroachments	WS M	PR : Prunings	En		38.975966 ° 38.975966 ° 9 -121.475003 ° -121.475003 °	DWR ID: DWR_RD1001_01_f_2013_9		
6	0.92 2.43	Earthen Levee	Vegetation	CR M	V9 : Keep the crown roadway free of vegetation.	Ma		38.974758 ° 38.968557 ° 10 -121.484300 ° -121.509360 ° Y	DWR ID: DWR_RD1001_01_s_2013_10		
7	0.96 0.96	Earthen Levee	Vegetation	LS U	V6 : Landscaping	En		38.974569 ° 38.974569 ° 15 -121.484815 ° -121.484815 ° Y	DWR ID: DWR_RD1001_01_s_2012_15		
8	1.31 1.31	Earthen Levee	Encroachments	LS C	PR : Prunings	En		38.972663 ° 38.972663 ° 11 -121.490613 ° -121.490613 °	DWR ID: DWR_RD1001_01_s_2013_11		
9	2.14 2.14	Earthen Levee	Vegetation	LS A/W	V1 : Control annual grass and weeds on the levee slopes Ma and easements.			38.970353 ° 38.970353 ° 8 -121.504655 ° -121.504655 °	DWR ID: DWR_RD1001_01_f_2013_8		
10	3.02 3.02	Earthen Levee	Animal Control	WS M	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	Ma		38.966453 ° 38.966453 ° 4 -121.519065 ° -121.519065 °	DWR ID: DWR_RD1001_01_f_2013_4		
11	3.16 3.22	Earthen Levee	Vegetation	LS M	V6 : Landscaping	En		38.965663 ° 38.965705 ° 5 -121.521023 ° -121.522098 ° Y	DWR ID: DWR_RD1001_01_s_2012_5		
12	3.34 3.34	Earthen Levee	Encroachments	LS C	PR : Prunings	En		38.965612 ° 38.965612 ° 6 -121.524542 ° -121.524542 °	DWR ID: DWR_RD1001_01_s_2013_6		

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yankee Slough	Right	4.17	10/16/2013 10/16/2013	Matthew Hoffman

Levee Mile Report Line	6
Start Levee Mile	0.92
End Levee Mile	2.43
Location	Crown
Category	Earthen Levee
Item	Vegetation
The vegetation has been mowed needs to be controlled. Spring 2013	
mhoffman_f_20130917_143.JPG	



Levee Mile Report Line	7
Start Levee Mile	0.96
End Levee Mile	0.96
Location	Land Side
Category	Earthen Levee
Item	Vegetation
The landscape on the levee slope blocks visibility. Spring 2013	
mhoffman_f_20130917_145.JPG	



Levee Mile Report Line	11
Start Levee Mile	3.16
End Levee Mile	3.22
Location	Land Side
Category	Earthen Levee
Item	Vegetation
RD 1001 Unit 1 - Landscaping	
mhoffman_f_20130917_140.JPG	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yankee Slough	Right	4.17	10/16/2013 10/16/2013	Matthew Hoffman

Levee Mile Report Line	11
Start Levee Mile	3.16
End Levee Mile	3.22
Location	Land Side
Category	Earthen Levee
Item	Vegetation
RD 1001 Unit 1 - L/S - Landscaping	
mhoffman_f_20130917_141.JPG	



* Location LS : Land Side WS : Water Side CR : Crown

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+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Reclamation District No. 1001 Nicolaus

Waterway			Bank	Unit Miles
Unit No. 02 Yankee Slough			Left	3.66
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	05/23/2013 - 05/23/2013		10/17/2013 - 10/17/2013	
DWR Inspector	John Williamson		Matthew Hoffman	
Accompanied By	Diane Fales RD 1001		Andrew Stresser RD 1001	

Summer & Winter Inspections

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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector		
LMR No	Levee Mile		Category	Item	* Location	* Rating	Action/Comment			GPS Latitude/Longitude	Issue No.	
	Start	End								Start	End	
12	1.78	1.78	Earthen Levee	Encroachments	LS En	U	BU : Building			38.970347 ° -121.502027 °	38.970347 ° -121.502027 ° Y DWR ID: DWR_RD1001_02_s_2012_11	
13	1.79	1.81	Earthen Levee	Vegetation	LS En	C	V6 : Landscaping			38.970347 ° -121.502177 °	38.970327 ° -121.502618 ° DWR ID: DWR_RD1001_02_s_2012_12	
14	2.32	2.55	Earthen Levee	Encroachments	LS En	M	DT : Ditch			38.967402 ° -121.510850 °	38.967515 ° -121.515270 ° Y DWR ID: DWR_RD1001_02_s_2012_52	
15	2.32	2.32	Supplemental DWR UCIP Field Study		LS En	M	Inspector Comments: FS_ID:14008 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - slide gate in inlet pipe on landside - pits on pipe due to corrosion FIELD_STRUCT_DESC: 36-inch corrugated-metal drainage pipe through the levee, 15.0 feet below the crown, concrete-U headwall and flap gate at outfall on the waterward end and slide gate on landside inlet (R.D. No. 1001). O&M Manual Sac 141, August 1955. FS Date: 5/23/2013				38.967403 ° -121.510953 ° 38.967403 ° -121.510953 ° Y	DWR ID: DWR_RD1001_02_f_2013_2
16	2.38	2.38	Earthen Levee	Vegetation	LS Ma	A	V1 : Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Acceptable vegetation maintenance.			38.967642 ° -121.512053 °	38.967642 ° -121.512053 ° Y DWR ID: DWR_RD1001_02_f_2013_13	
17	2.86	2.86	Earthen Levee	Encroachments	LS En	C	TR : Tree or limb			38.964855 ° -121.519305 °	38.964855 ° -121.519305 ° DWR ID: DWR_RD1001_02_s_2013_8	
18	3.32	3.32	Earthen Levee	Encroachments	WS Ma	M	TR : Tree or limb			38.963825 ° -121.527613 °	38.963825 ° -121.527613 ° DWR ID: DWR_RD1001_02_f_2013_14	

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+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yankee Slough	Left	3.66	10/17/2013 10/17/2013	Matthew Hoffman

Levee Mile Report Line	2
Start Levee Mile	0.50
End Levee Mile	0.50
Location	Land Side
Category	Supplemental
Item	DWR UCIP Field Study
WS- end of the pipe.	
	
UCIP_7462.jpg	

Levee Mile Report Line	3
Start Levee Mile	0.52
End Levee Mile	0.52
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Debris on the levee slope and at the toe of the levee. Spring 2013	
	
mhoffman_f_20130917_148.JPG	

Levee Mile Report Line	5
Start Levee Mile	0.58
End Levee Mile	0.58
Location	Land Side
Category	Earthen Levee
Item	Encroachments
RD 1001 Unit 2 - L/S - Prunning Piles	
	
mhoffman_f_20130917_154.JPG	

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway		Bank	Unit Miles	Inspection Start/End	Inspector
	Unit No. 02 Yankee Slough	Left	3.66	10/17/2013 10/17/2013	Matthew Hoffman

Levee Mile Report Line	6
Start Levee Mile	0.67
End Levee Mile	0.67
Location	Land Side
Category	Earthen Levee
Item	Vegetation
RD 1001 Unit 2 - L/S -Landscaping - Cactus and fruit trees	
mhoffman_f_20130917_155.JPG	



Levee Mile Report Line	7
Start Levee Mile	0.81
End Levee Mile	0.81
Location	Land Side
Category	Earthen Levee
Item	Encroachments
RD 1001 Unit 2 - L/S - Prunning Piles	
mhoffman_f_20130917_149.JPG	



Levee Mile Report Line	11
Start Levee Mile	1.77
End Levee Mile	1.77
Location	Land Side
Category	Earthen Levee
Item	Vegetation
RD 1001 Unit 2 - L/S -Landscaping - Trees	
mhoffman_f_20130917_151.JPG	



* Location LS : Land Side WS : Water Side CR : Crown

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N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yankee Slough	Left	3.66	10/17/2013 10/17/2013	Matthew Hoffman

Levee Mile Report Line	12
Start Levee Mile	1.78
End Levee Mile	1.78
Location	Land Side
Category	Earthen Levee
Item	Encroachments
RD 1001 Unit 2 - L/S -Building @ toe.	
mhoffman_f_20130917_152.JPG	



Levee Mile Report Line	14
Start Levee Mile	2.32
End Levee Mile	2.55
Location	Land Side
Category	Earthen Levee
Item	Encroachments
RD 1001 Unit 2 - L/S - Drainage Ditch @ toe.	
mhoffman_f_20130917_157.JPG	



Levee Mile Report Line	15
Start Levee Mile	2.32
End Levee Mile	2.32
Location	Land Side
Category	Supplemental
Item	DWR UCIP Field Study
LS- slide gate in inlet pipe structure	
UCIP_7515.jpg	



* Location LS : Land Side WS : Water Side CR : Crown
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yankee Slough	Left	3.66	10/17/2013 10/17/2013	Matthew Hoffman

Levee Mile Report Line	16
Start Levee Mile	2.38
End Levee Mile	2.38
Location	Land Side
Category	Earthen Levee
Item	Vegetation

This photo was taken from the levee crown facing west looking down the landward slope at the acceptable vegetation maintenance.

mhoffman_f_20131018_667.JPG



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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Reclamation District No. 1001 Nicolaus

Waterway			Bank	Unit Miles
Unit No. 03 Bear River			Left	12.60
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M	
Date of Inspection	05/23/2013 - 05/23/2013		10/16/2013 - 10/16/2013	
DWR Inspector	John Williamson		Matthew Hoffman	
Accompanied By	Diane Fales		Andrew Stresser RD 1001	

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Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway									Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 03 Bear River									Left	12.60	10/16/2013 10/16/2013	Matthew Hoffman	
L/MR No.	Levee Mile		Category	Item	* Location	* Rating	Action/Comment				GPS Latitude/Longitude		Issue No.
	Start	End					Start	End	Photo				
1	0.02	0.08	Earthen Levee	Trim / Thin Trees	WS Ma	T1 : Trim trees to at least five feet above ground level.	39.006602 ° -121.375305 °	39.006600 ° -121.376397 °	26	DWR ID: DWR_RD1001_03_s_2013_26	Y		
2	0.11	0.11	Earthen Levee	Slope Stability	CR Ma	S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible. Inspector Comments: Rutting caused by vehicles driving up the landward levee slope.	39.006569 ° -121.377037 °	39.006569 ° -121.377037 °	2	DWR ID: DWR_RD1001_03_f_2013_2	Y		
3	0.83	0.83	Earthen Levee	Vegetation	WSA/W Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	39.006418 ° -121.390177 °	39.006418 ° -121.390177 °	4	DWR ID: DWR_RD1001_03_f_2013_4			
4	0.84	0.84	Earthen Levee	Trim / Thin Trees	WS Ma	T1 : Trim trees to at least five feet above ground level.	39.006429 ° -121.390363 °	39.006429 ° -121.390363 °	13	DWR ID: DWR_RD1001_03_f_2013_13			
5	0.88	0.88	Supplemental DWR UCIP Field Study	WS En	M	Inspector Comments: FS_ID:14128 EP_NO: 958 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - slide gate on WS not found- needs abandoned properly. FIELD_STRUCT_DESC: Abandoned 24-inch irrigation pipe through the levee.(Permit No. 958, 1944) FS Date: 5/21/2013	39.006508 ° -121.391086 °	39.006508 ° -121.391086 °	1	DWR ID: DWR_RD1001_03_f_2013_1	Y		
6	0.93	0.93	Earthen Levee	Trim / Thin Trees	WS Ma	T1 : Trim trees to at least five feet above ground level.	39.006609 ° -121.392030 °	39.006609 ° -121.392030 °	15	DWR ID: DWR_RD1001_03_f_2013_15			
7	1.06	1.06	Earthen Levee	Slope Stability	WSA/W En	S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.	39.006188 ° -121.394420 °	39.006188 ° -121.394420 °	5	DWR ID: DWR_RD1001_03_s_2012_5	Y		
8	1.09	1.09	Earthen Levee	Trim / Thin Trees	WS Ma	T1 : Trim trees to at least five feet above ground level.	39.006095 ° -121.394842 °	39.006095 ° -121.394842 °	16	DWR ID: DWR_RD1001_03_f_2013_16			
9	1.21	1.77	Earthen Levee	Encroachments	WS En	M PO : Pole	39.005316 ° -121.397026 °	38.999814 ° -121.404346 °	3	DWR ID: DWR_RD1001_03_s_2012_3	Y		
10	1.87	1.87	Earthen Levee	Slope Stability	LS A/W Ma	S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.	38.998640 ° -121.405502 °	38.998640 ° -121.405502 °	29	DWR ID: DWR_RD1001_03_s_2013_29	Y		
11	1.87	1.87	Earthen Levee	Slope Stability	WSA/W Ma	S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.	38.998642 ° -121.405507 °	38.998642 ° -121.405507 °	28	DWR ID: DWR_RD1001_03_s_2013_28	Y		
12	2.10	2.15	Earthen Levee	Vegetation	WSA/W Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	38.996779 ° -121.408870 °	38.996681 ° -121.409771 °	18	DWR ID: DWR_RD1001_03_f_2013_18			
13	2.29	2.29	Earthen Levee	Slope Stability	LS A/W Ma	S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.	38.996302 ° -121.412285 °	38.996302 ° -121.412285 °	30	DWR ID: DWR_RD1001_03_s_2013_30	Y		

* Location
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** Rating

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+ Issue Type

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Ob : Design & System Obsolescence
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River							Left	12.60	10/16/2013 10/16/2013	Matthew Hoffman
L/MR No.	Levee Mile		Category	Item	* Location +	* Rating +	Action/Comment	GPS Latitude/Longitude		Issue No. Start Photo
	Start	End						Start	End	
29	4.49	4.49	Earthen Levee	Encroachments	LS	M	MA : Material En	38.991867 °	38.991867 °	9 -121.451743 ° -121.451743 ° Y DWR ID: DWR_RD1001_03_s_2013_9
30	4.68	4.68	Earthen Levee	Vegetation	LS	A/W	V4 : Elderberries are blocking visibility and flood fight En capability.	38.991513 °	38.991513 °	58 -121.455220 ° -121.455220 ° Y DWR ID: DWR_RD1001_03_s_2012_58
31	4.71	4.71	Earthen Levee	Encroachments	LS	M	PR : Prunings En	38.991413 °	38.991413 °	12 -121.455866 ° -121.455866 ° DWR ID: DWR_RD1001_03_s_2012_12
32	4.75	4.75	Earthen Levee	Encroachments	LS	M	PR : Prunings En	38.991228 °	38.991228 °	36 -121.456472 ° -121.456472 ° Y DWR ID: DWR_RD1001_03_s_2013_36
33	4.85	4.85	Earthen Levee	Vegetation	LS	A/W	V4 : Elderberries are blocking visibility and flood fight Ma capability.	38.990773 °	38.990773 °	910 -121.458203 ° -121.458203 ° Y DWR ID: DWR_RD1001_03_s_2012_910
34	4.99	4.99	Earthen Levee	Encroachments	LS	M	PR : Prunings En	38.990000 °	38.990000 °	14 -121.460597 ° -121.460597 ° Y DWR ID: DWR_RD1001_03_s_2012_14
35	5.59	6.02	Earthen Levee	Vegetation	LS	M	V1 : Control annual grass and weeds on the levee slopes Ma and easements.	38.987021 °	38.985098 °	47 -121.471033 ° -121.478591 ° DWR ID: DWR_RD1001_03_f_2013_47
36	5.67	5.67	Earthen Levee	Encroachments	LS	M	PR : Prunings En	38.986638 °	38.986638 °	8 -121.472457 ° -121.472457 ° Y DWR ID: DWR_RD1001_03_s_2013_8
37	6.17	6.23	Earthen Levee	Encroachments	LS	M	FW : Firewood En	38.984718 °	38.984625 °	37 -121.481198 ° -121.482322 ° Y DWR ID: DWR_RD1001_03_s_2013_37
38	6.50	6.50	Earthen Levee	Erosion / Bank Caving	LS	M	E2 : Schedule repair of erosion site prior to the next Ma inspection.	38.984010 °	38.984010 °	38 -121.487420 ° -121.487420 ° Y DWR ID: DWR_RD1001_03_s_2013_38
39	6.88	6.88	Earthen Levee	Encroachments	LS	M	PR : Prunings En	38.983328 °	38.983328 °	39 -121.494400 ° -121.494400 ° Y DWR ID: DWR_RD1001_03_s_2013_39
40	7.21	7.30	Supplemental USACE Erosion Survey	WS	M	Ma	Inspector Comments: 2008 - Sandy/silty banks with rotational slab failures creating near vertical bank with pop-outs due to tree failures. Narrow berm. 2012: No observed change. [2012 Site ID: BER_5-7_L]	38.982737 °	38.982572 °	10 -121.501144 ° -121.502797 ° Y DWR ID:
41	9.68	9.68	Earthen Levee	Encroachments	WS	M	TR : Tree or limb Ma Inspector Comments: Fallen tree on waterward slope.	38.968448 °	38.968448 °	49 -121.536580 ° -121.536580 ° Y DWR ID: DWR_RD1001_03_f_2013_49
42	10.22	10.22	Earthen Levee	Trim / Thin Trees	WS	M	T3 : Trim and thin trees to allow visibility of the ground and Ma room to flood fight.	38.967396 °	38.967396 °	24 -121.543615 ° -121.543615 ° Y DWR ID: DWR_RD1001_03_s_2013_24
43	10.37	10.41	Supplemental USACE Erosion Survey	WS	M	Ma	Inspector Comments: 2011 - Large section of bank has slumped off. RD has flagged and appears to be watching. 2012: No observed change. [2012 Site ID: BER_2-5_L]	38.964583 °	38.964010 °	17 -121.544967 ° -121.545228 ° Y DWR ID:

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.60	10/16/2013 10/16/2013	Matthew Hoffman

Levee Mile Report Line	1
Start Levee Mile	0.02
End Levee Mile	0.08
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

Trees partially obstruct visibility. Spring 2013

mhoffman_f_20130917_182.JPG



Levee Mile Report Line	2
Start Levee Mile	0.11
End Levee Mile	0.11
Location	Crown
Category	Earthen Levee
Item	Slope Stability

This photo was taken from the crown of the levee facing west looking down the slope at rutting caused by vehicles driving up the landward levee slope.

mhoffman_f_20131018_661.JPG



Levee Mile Report Line	5
Start Levee Mile	0.88
End Levee Mile	0.88
Location	Crown
Category	Supplemental
Item	DWR UCIP Field Study

WS- abandoned CMP and depression around it.

UCIP_7559.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.60	10/16/2013 10/16/2013	Matthew Hoffman

Levee Mile Report Line	7
Start Levee Mile	1.06
End Levee Mile	1.06
Location	Water Side
Category	Earthen Levee
Item	Slope Stability
RD 1001 Unit 3 - Slope damage	
mhoffman_f_20130917_159.JPG	



Levee Mile Report Line	9
Start Levee Mile	1.21
End Levee Mile	1.77
Location	Water Side
Category	Earthen Levee
Item	Encroachments
RD 1001 Unit 3 - Power Poles along W/S shoulder.	
mhoffman_f_20130917_158.JPG	



Levee Mile Report Line	10
Start Levee Mile	1.87
End Levee Mile	1.87
Location	Land Side
Category	Earthen Levee
Item	Slope Stability
Damage caused by vehicles. Spring 2013	
mhoffman_f_20130917_186.JPG	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.60	10/16/2013 10/16/2013	Matthew Hoffman

Levee Mile Report Line	10
Start Levee Mile	1.87
End Levee Mile	1.87
Location	Land Side
Category	Earthen Levee
Item	Slope Stability
Damage caused by vehicles going around the gate. Spring 2013	
mhoffman_f_20130917_187.JPG	



Levee Mile Report Line	11
Start Levee Mile	1.87
End Levee Mile	1.87
Location	Water Side
Category	Earthen Levee
Item	Slope Stability
Damage caused by vehicles. Spring 2013	
mhoffman_f_20130917_184.JPG	



Levee Mile Report Line	11
Start Levee Mile	1.87
End Levee Mile	1.87
Location	Water Side
Category	Earthen Levee
Item	Slope Stability
Damage caused by vehicles Spring 2013	
mhoffman_f_20130917_185.JPG	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.60	10/16/2013 10/16/2013	Matthew Hoffman

Levee Mile Report Line	13
Start Levee Mile	2.29
End Levee Mile	2.29
Location	Land Side
Category	Earthen Levee
Item	Slope Stability
Damage caused by vehicles. Spring 2013	
mhoffman_f_20130917_188.JPG	



Levee Mile Report Line	19
Start Levee Mile	3.03
End Levee Mile	3.03
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Pruning pile on the levee slope. Spring 2013	
mhoffman_f_20130917_189.JPG	



Levee Mile Report Line	21
Start Levee Mile	3.16
End Levee Mile	3.16
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Stumps and pruning piled on the levee slope. Spring 2013	
mhoffman_f_20130917_190.JPG	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.60	10/16/2013 10/16/2013	Matthew Hoffman

Levee Mile Report Line	22
Start Levee Mile	3.54
End Levee Mile	3.54
Location	Land Side
Category	Earthen Levee
Item	Vegetation

RD 1001 Unit 3 - L/S slope -Elderberries

mhoffman_f_20130917_200.JPG



Levee Mile Report Line	23
Start Levee Mile	3.59
End Levee Mile	3.59
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Walnut root balls at the levee toe. Spring 2013

mhoffman_f_20130917_191.JPG



Levee Mile Report Line	24
Start Levee Mile	3.71
End Levee Mile	3.71
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Walnut stumps at the levee toe. Spring 2013

mhoffman_f_20130917_192.JPG



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.60	10/16/2013 10/16/2013	Matthew Hoffman

Levee Mile Report Line	25
Start Levee Mile	3.84
End Levee Mile	3.84
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Firewood piled up at the levee toe. Spring 2013	
mhoffman_f_20130917_193.JPG	



Levee Mile Report Line	26
Start Levee Mile	3.95
End Levee Mile	3.95
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Walnut stumps at the levee toe. Spring 2013	
mhoffman_f_20130917_160.JPG	



Levee Mile Report Line	27
Start Levee Mile	4.05
End Levee Mile	4.11
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Irrigation pipe equipment and plastic cans within the easement of the levee. Spring 2013	
mhoffman_f_20130917_161.JPG	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.60	10/16/2013 10/16/2013	Matthew Hoffman

Levee Mile Report Line	28
Start Levee Mile	4.31
End Levee Mile	4.31
Location	Crown
Category	Earthen Levee
Item	Slope Stability

This photo was taken from the crown of the levee facing west looking down the slope at rutting caused by vehicles driving up the waterward levee slope.

mhoffman_f_20131018_662.JPG



Levee Mile Report Line	29
Start Levee Mile	4.49
End Levee Mile	4.49
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Drip irrigation tubing within the easement of the levee. Spring 2013

mhoffman_f_20130917_163.JPG



Levee Mile Report Line	30
Start Levee Mile	4.68
End Levee Mile	4.68
Location	Land Side
Category	Earthen Levee
Item	Vegetation

RD 1001 Unit 3 - W/S slope -Elderberries

mhoffman_f_20130917_198.JPG



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.60	10/16/2013 10/16/2013	Matthew Hoffman

Levee Mile Report Line	32
Start Levee Mile	4.75
End Levee Mile	4.75
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Small pruning pile at toe of levee. Spring 2013	
mhoffman_f_20130917_194.JPG	



Levee Mile Report Line	33
Start Levee Mile	4.85
End Levee Mile	4.85
Location	Land Side
Category	Earthen Levee
Item	Vegetation
RD 1001 Unit 3 - L/S slope -Elderberries	
mhoffman_f_20130917_201.JPG	



Levee Mile Report Line	34
Start Levee Mile	4.99
End Levee Mile	4.99
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Pruning pile at toe of the levee. Spring 2013	
mhoffman_f_20130917_171.JPG	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.60	10/16/2013 10/16/2013	Matthew Hoffman

Levee Mile Report Line	36
Start Levee Mile	5.67
End Levee Mile	5.67
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Pruning pile within the easement of the levee. Spring 2013	
mhoffman_f_20130917_162.JPG	



Levee Mile Report Line	37
Start Levee Mile	6.17
End Levee Mile	6.23
Location	Land Side
Category	Earthen Levee
Item	Encroachments
A very neat stack of firewood within the easement of the levee. Spring 2013	
mhoffman_f_20130917_195.JPG	



Levee Mile Report Line	38
Start Levee Mile	6.50
End Levee Mile	6.50
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Erosion caused by run off from the roadway. Spring 2013	
mhoffman_f_20130917_196.JPG	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.60	10/16/2013 10/16/2013	Matthew Hoffman

Levee Mile Report Line	39
Start Levee Mile	6.88
End Levee Mile	6.88
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Walnut stumps within the easement of the levee. Spring 2013	mhoffman_f_20130917_197.JPG



Levee Mile Report Line	40
Start Levee Mile	7.21
End Levee Mile	7.30
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2012 Photo #1	USACE2013_BER_5-7_L_1.jpg



Levee Mile Report Line	40
Start Levee Mile	7.21
End Levee Mile	7.30
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2012 Photo #2	USACE2013_BER_5-7_L_2.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.60	10/16/2013 10/16/2013	Matthew Hoffman

Levee Mile Report Line	40
Start Levee Mile	7.21
End Levee Mile	7.30
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2012 Photo #3	
USACE2013_BER_5-7_L_3.jpg	



Levee Mile Report Line	40
Start Levee Mile	7.21
End Levee Mile	7.30
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2012 Photo #4	
USACE2013_BER_5-7_L_4.jpg	



Levee Mile Report Line	41
Start Levee Mile	9.68
End Levee Mile	9.68
Location	Water Side
Category	Earthen Levee
Item	Encroachments
This photo was taken from the levee crown facing west looking down the waterward slope at a tree that had fallen down.	
mhoffman_f_20131018_664.JPG	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.60	10/16/2013 10/16/2013	Matthew Hoffman

Levee Mile Report Line	42
Start Levee Mile	10.22
End Levee Mile	10.22
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees
Trees partially obstruct visibility. Spring 2013	
mhoffman_f_20130917_180.JPG	



Levee Mile Report Line	43
Start Levee Mile	10.37
End Levee Mile	10.41
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2012 Photo #1	



Levee Mile Report Line	43
Start Levee Mile	10.37
End Levee Mile	10.41
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE2013_BER_2-5_L_1.jpg	



Levee Mile Report Line	43
Start Levee Mile	10.37
End Levee Mile	10.41
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2012 Photo #2	

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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.60	10/16/2013 10/16/2013	Matthew Hoffman

Levee Mile Report Line	43
Start Levee Mile	10.37
End Levee Mile	10.41
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2012 Photo #3	
USACE2013_BER_2-5_L_3.jpg	



Levee Mile Report Line	44
Start Levee Mile	10.60
End Levee Mile	10.60
Location	Water Side
Category	Earthen Levee
Item	Encroachments
USACE 2012 Photo #1	
mhoffman_f_20130917_168.jpg	



Levee Mile Report Line	44
Start Levee Mile	10.60
End Levee Mile	10.60
Location	Water Side
Category	Earthen Levee
Item	Encroachments
USACE 2012 Photo #2	
mhoffman_f_20130917_169.jpg	



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WS : Water Side
CR : Crown

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A/W : Acceptable but Monitor & Maintain

+ Issue Type
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Ob : Design & System Obsolescence
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.60	10/16/2013 10/16/2013	Matthew Hoffman

Levee Mile Report Line	44
Start Levee Mile	10.60
End Levee Mile	10.60
Location	Water Side
Category	Earthen Levee
Item	Encroachments

USACE 2012 Photo #3



mhoffman_f_20130917_170.jpg

Levee Mile Report Line	46
Start Levee Mile	11.09
End Levee Mile	11.17
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #1



USACE2013_BER_1-9_L_1.jpg

Levee Mile Report Line	46
Start Levee Mile	11.09
End Levee Mile	11.17
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #2



USACE2013_BER_1-9_L_2.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.60	10/16/2013 10/16/2013	Matthew Hoffman

Levee Mile Report Line	46
Start Levee Mile	11.09
End Levee Mile	11.17
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2012 Photo #3	
USACE2013_BER_1-9_L_3.jpg	



Levee Mile Report Line	46
Start Levee Mile	11.09
End Levee Mile	11.17
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2012 Photo #4	
USACE2013_BER_1-9_L_4.jpg	



Levee Mile Report Line	48
Start Levee Mile	11.29
End Levee Mile	11.32
Location	Land Side
Category	Earthen Levee
Item	Vegetation
RD 1001 Unit 3 - L/S slope -Elderberries	
mhoffman_f_20130917_179.JPG	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.60	10/16/2013 10/16/2013	Matthew Hoffman

Levee Mile Report Line	49
Start Levee Mile	11.46
End Levee Mile	11.61
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees
RD 1001 Unit 3 - W/S slope - Trim Trees	
mhoffman_f_20130917_199.JPG	



Levee Mile Report Line	50
Start Levee Mile	11.65
End Levee Mile	11.86
Location	Water Side
Category	Earthen Levee
Item	Vegetation
Revegetation site in progress. Spring 2013	
mhoffman_f_20130917_181.JPG	



Levee Mile Report Line	52
Start Levee Mile	12.13
End Levee Mile	12.22
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2012 Photo #1	
USACE2013_BER_0-8_L_1.jpg	



* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.60	10/16/2013 10/16/2013	Matthew Hoffman

Levee Mile Report Line	52
Start Levee Mile	12.13
End Levee Mile	12.22
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #2

USACE2013_BER_0-8_L_2.jpg



Levee Mile Report Line	52
Start Levee Mile	12.13
End Levee Mile	12.22
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #3

USACE2013_BER_0-8_L_3.jpg



Levee Mile Report Line	53
Start Levee Mile	12.24
End Levee Mile	12.24
Location	Land Side
Category	Earthen Levee
Item	Vegetation

RD 1001 Unit 3 - L/S slope -Elderberries @ toe.

mhoffman_f_20130917_183.JPG



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WS : Water Side
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Reclamation District No. 1001 Nicolaus

Waterway			Bank	Unit Miles
Unit No. 04 Feather River			Left	13.36
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	05/22/2013 - 05/22/2013		10/17/2013 - 10/17/2013	
DWR Inspector	John Williamson		Matthew Hoffman	
Accompanied By	Diane Fales			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**
Levee Inspection Report By Mile - Fall 2013
Reclamation District No. 1001 Nicolaus

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River							Left	13.36	10/17/2013 10/17/2013	Matthew Hoffman
LMR No.	Levee Mile		Category	Item	* Location Start	* Rating +	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	

1	0.03	1.72	Earthen Levee	Vegetation	WS Ma	A	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.941220 ° -121.567513 °	38.917153 ° -121.569994 °	14 Y
DWR ID: DWR_RD1001_04_s_2012_14										
2	0.03	2.00	Earthen Levee	Vegetation	LS Ma	M	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.941220 ° -121.567521 °	38.913890 ° -121.572600 °	13 Y
										DWR ID: DWR_RD1001_04_s_2012_13
3	0.97	1.23	Earthen Levee	Vegetation	CR Ma	C	V9 : Keep the crown roadway free of vegetation.	38.928034 ° -121.568114 °	38.924261 ° -121.568595 °	16 Y
										DWR ID: DWR_RD1001_04_f_2013_16
4	2.32	2.32	Earthen Levee	Encroachments	LS En	A/W	PO : Pole	38.909790 ° -121.574449 °	38.909790 ° -121.574449 °	19 Y
										DWR ID: DWR_RD1001_04_s_2013_19
5	2.66	2.66	Earthen Levee	Encroachments	LS En	M	BU : Building	38.905591 ° -121.577432 °	38.905591 ° -121.577432 °	20 Y
										DWR ID: DWR_RD1001_04_s_2013_20
6	2.88	2.88	Earthen Levee	Encroachments	LS En	M	TR : Tree or limb	38.903512 ° -121.580457 °	38.903512 ° -121.580457 °	148 Y
										DWR ID: DWR_RD1001_04_s_2012_148
7	3.14	3.14	Earthen Levee	Encroachments	WS Ma	M	TR : Tree or limb	38.900441 ° -121.583093 °	38.900441 ° -121.583093 °	41 Y
										DWR ID: DWR_RD1001_04_f_2013_41
8	3.21	3.23	Earthen Levee	Trim / Thin Trees	LS Ma	C	T1 : Trim trees to at least five feet above ground level.	38.899732 ° -121.584110 °	38.899590 ° -121.584398 °	31 Y
										DWR ID: DWR_RD1001_04_s_2012_31
9	5.05	5.05	Earthen Levee	Vegetation	WSA/W Ma	V4	Elderberries are blocking visibility and flood fight capability.	38.884813 ° -121.611493 °	38.884813 ° -121.611493 °	27 Y
										DWR ID: DWR_RD1001_04_s_2013_27
10	5.07	5.07	Earthen Levee	Vegetation	LS Ma	M	V1 : Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Maintain tall grass and vegetation on landward slope.	38.884636 ° -121.611468 °	38.884636 ° -121.611468 °	42 Y
										DWR ID: DWR_RD1001_04_f_2013_42
11	5.60	5.60	Earthen Levee	Vegetation	WSA/W En	V4	Elderberries are blocking visibility and flood fight capability.	38.877312 ° -121.613077 °	38.877312 ° -121.613077 °	149 Y
										DWR ID: DWR_RD1001_04_s_2012_149
12	5.84	5.97	Supplemental USACE Erosion Survey	WS Ma	M	V4	Inspector Comments: 2011 - Erosion pockets from tree popouts. Sections of the lower bank have slumped off. 2012: No observed change. [2012 Site ID: FHR_6-6_L]	38.874113 ° -121.615380 °	38.872373 ° -121.616504 °	1 Y
										DWR ID:

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CR : Crown

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A/W : Acceptable but Monitor & Maintain

+ Issue Type
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Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway								Bank	Unit Miles	Inspection Start/End	Inspector
L/MR No.	Levee Mile		Category	Item	* Location	* Rating	Action/Comment	GPS Latitude/Longitude		Issue No.	
	Start	End			*	+		Start	End		
13	5.84	5.84	Supplemental DWR UCIP Field Study		LS En	M	Inspector Comments: FS_ID:14604 EP_NO: 10389 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - water leakage causes erosion on LS slope.- may be pressure breaker valve not closed properly on LS.- a 36-inch concrete standpipe at the landward toe not found. FIELD_STRUCT_DESC: 12-inch irrigation pipe through the levee, 10.0 feet below the crown, slant pump on the bank, siphon breaker in a 24-inch corrugated metal pipe riser on the landward slope, pipe discharges into a 36-inch concrete standpipe at the landward toe, pipe installed by the U.S.C.E. in 1963, switch panel and service pole at the landward toe (Permit No. 10389, 1974) FS Date: 5/16/2013	38.874113 ° -121.614846 °	38.874113 ° -121.614846 °	8	
14	5.84	5.84	Supplemental DWR UCIP Field Study		LS En	M	Inspector Comments: FS_ID:14603 EP_NO: 10389 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - due to water leakage, erosion on LS slope.- may be pressure breaker valve not closed properly on LS.- a 36-inch concrete standpipe at the landward toe not found. FIELD_STRUCT_DESC: 12-inch irrigation pipe through the levee, 10.0 feet below the crown, slant pump on the bank, siphon breaker in a 24-inch corrugated metal pipe riser on the landward slope, pipe discharges into a 36-inch concrete standpipe at the landward toe, pipe installed by the U.S.C.E. in 1963, switch panel and service pole at the landward toe (Permit No. 10389, 1974) FS Date: 5/16/2013	38.874113 ° -121.614846 °	38.874113 ° -121.614846 °	10	
15	6.47	6.57	Supplemental USACE Erosion Survey	WS	Ma	M	Inspector Comments: 2011 - Tall slumping sections. Scour around trees has exposed most of the roots. 2012: No observed change. [2012 Site ID: FHR_6-0_L]	38.865875 ° -121.619983 °	38.864706 ° -121.620813 °	2	
16	6.48	6.48	Earthen Levee	Vegetation	LS En	M	V6 : Landscaping	38.865653 ° -121.619742 °	38.865653 ° -121.619742 °	17	
17	6.63	6.88	Supplemental USACE Erosion Survey	WS	Ma	M	Inspector Comments: 2011 - Large slumped sections on the lower bank. 2012: No observed change. [2012 Site ID: FHR_5-8_L]	38.863946 ° -121.621388 °	38.861558 ° -121.623316 °	4	
18	6.64	6.64	Earthen Levee	Vegetation	LS Ma	M	V4 : Elderberries are blocking visibility and flood fight capability.	38.863700 ° -121.621198 °	38.863700 ° -121.621198 °	18	
19	6.86	6.86	Earthen Levee	Vegetation	WSA/W Ma	V8	: Environmental Requirements.	38.861071 ° -121.623332 °	38.861071 ° -121.623332 °	28	

* Location
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WS : Water Side
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** Rating	N : Not Inspected/Rated	+ Issue Type
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector	
LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment			GPS Latitude/Longitude	Issue No.
	Start	End					Start	End	Photo		
20	7.47	7.47	Earthen Levee	Vegetation	LS En	M	V6 : Landscaping			38.853221 ° -121.628469 °	38.853221 ° -121.628469 °
										DWR ID: DWR_RD1001_04_f_2013_43	
21	7.54	7.86	Supplemental USACE Erosion Survey	WS	M Ma	M	Inspector Comments: 2000 - Steep bank off berm with some slumps and fallen trees, continued erosion. 2002 - Site lengthened upstream and downstream due to vertical bank along most of the reach. 2010 - Site extended upstream. 2011 - Minimal new erosion. 2012: Site extended upstream end, bank erosion continues to worsen. [2012 Site ID: FHR_5-0_L]			38.852394 ° -121.629231 °	38.848004 ° -121.630873 °
										DWR ID:	Y
22	8.61	9.01	Supplemental USACE Erosion Survey	WS	M Ma	M	Inspector Comments: 2006 - Sandy, silty bank with intermittent pockets of erosion. Rotational failure and tree pop outs are most of the problem. Some upper slope fluvial erosion. 2010 - Site extended upstream. The lower Feather may benefit from a regional repair. 2011 - Site combined with 3.6. Minimal new erosion. 2012: No observed change. [2012 Site ID: FHR_3-8_L]			38.836966 ° -121.634128 °	38.831498 ° -121.636371 °
										DWR ID:	Y
23	8.72	8.72	Earthen Levee	Vegetation	LS Ma	M	V4 : Elderberries are blocking visibility and flood fight capability.			38.835766 ° -121.633966 °	38.835766 ° -121.633966 °
										DWR ID: DWR_RD1001_04_s_2012_12	12
24	9.22	9.22	Supplemental DWR UCIP Field Study	LS En	M	M	Inspector Comments: FS_ID:14563 EP_NO: 12828 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - needs detailed investigation for road surface cracks FIELD_STRUCT_DESC: 16-inch asphalt-coated steel irrigation pipe through the levee, 4.3 feet below the crown, 30-horsepower slant pump and platform on the bank (Permit No. 12828, 1979). O&M Manual Sac 141.1, August 1955. FS Date: 5/16/2013			38.828893 ° -121.637219 °	38.828893 ° -121.637219 °
										DWR ID: DWR_RD1001_04_f_2013_15	15
25	9.51	9.51	Supplemental DWR UCIP Field Study	LS En	M	M	Inspector Comments: FS_ID:14544 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - seems abandoned pipe crossing.- needs properly abandoned.- a 48" steel tank not found on landside. FIELD_STRUCT_DESC: 12-inch steel irrigation pipe through the levee, 5.0 feet below the crown, pump on the bank, pipe discharges into a 48-inch steel tank at the landward toe (Johnston) FS Date: 5/16/2013			38.825107 ° -121.639369 °	38.825107 ° -121.639369 °
										DWR ID: DWR_RD1001_04_f_2013_33	33

* Location LS : Land Side WS : Water Side CR : Crown

** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain
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+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway								Bank	Unit Miles	Inspection Start/End	Inspector
LMR No.	Levee Mile		Category	Item	* Location	* Rating	Action/Comment	GPS Latitude/Longitude		Issue No.	
	Start	End						Start	End		
26	9.51	9.51	Supplemental	DWR UCIP Field Study	WS	M En	Inspector Comments: FS_ID:14543 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - seems abandoned pipe- needs properly abandoned.- a 48" steel tank not found on landside. FIELD_STRUCT_DESC: 12-inch steel irrigation pipe through the levee, 5.0 feet below the crown, pump on the bank, pipe discharges into a 48-inch steel tank at the landward toe (Johnston) FS Date: 6/5/2013 8:23:15 AM	38.825107 °	-121.639369 °	34	
								38.825107 °	-121.639369 °		
27	9.74	9.74	Earthen Levee	Vegetation	WS	M En	V6 : Landscaping	38.833088 °	38.833088 °	21	
								-121.635103 °	-121.635103 °	Y	
										DWR ID: DWR_RD1001_04_s_2012_21	
28	9.99	9.99	Supplemental	DWR UCIP Field Study	WS	M En	Inspector Comments: FS_ID:14627 EP_NO: 3297 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - needs properly abandoned.- dismantled standpipe found on LS levee slope FIELD_STRUCT_DESC: 12-inch steel pipe through the levee, 3.0 feet below the crown, slant pump mounted on a steel structure on the bank, siphon breaker on the landward shoulder, pipe discharges into a 24-inch concrete standpipe at the landward toe (Permit No. 3297, 1960). FS Date: 5/16/2013	38.818341 °	-121.638890 °	35	
								38.818341 °	-121.638890 °	Y	
29	9.99	9.99	Supplemental	DWR UCIP Field Study	WS	M En	Inspector Comments: FS_ID:14552 EP_NO: 3297 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - needs properly abandoned.- dismantled standpipe found on LS levee slope FIELD_STRUCT_DESC: 12-inch steel pipe through the levee, 3.0 feet below the crown, slant pump mounted on a steel structure on the bank, siphon breaker on the landward shoulder, pipe discharges into a 24-inch concrete standpipe at the landward toe (Permit No. 3297, 1960). FS Date: 5/16/2013	38.818341 °	-121.638890 °	36	
								38.818341 °	-121.638890 °		
										DWR ID: DWR_RD1001_04_f_2013_35	
										DWR ID: DWR_RD1001_04_f_2013_36	

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector	
LMR No	Levee Mile		Category	Item	* Location	* Rating	Action/Comment			GPS Latitude/Longitude	Issue No.
	Start	End					Start	End	Photo		
30	9.99	9.99	Supplemental	DWR UCIP Field Study	LS En	M	Inspector Comments: FS_ID:14626 EP_NO: 3297 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - needs properly abandoned.- dismantled standpipe found on LS levee slope FIELD_STRUCT_DESC: 12-inch steel pipe through the levee, 3.0 feet below the crown, slant pump mounted on a steel structure on the bank, siphon breaker on the landward shoulder, pipe discharges into a 24-inch concrete standpipe at the landward toe (Permit No. 3297, 1960). FS Date: 5/16/2013	38.818341 °	-121.638890 °	37	
										38.818341 °	-121.638890 °
31	9.99	9.99	Supplemental	DWR UCIP Field Study	LS En	M	Inspector Comments: FS_ID:14525 EP_NO: 3297 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - needs properly abandoned.- dismantled standpipe found on LS levee slope FIELD_STRUCT_DESC: 12-inch steel pipe through the levee, 3.0 feet below the crown, slant pump mounted on a steel structure on the bank, siphon breaker on the landward shoulder, pipe discharges into a 24-inch concrete standpipe at the landward toe (Permit No. 3297, 1960). FS Date: 5/15/2013	38.818341 °	-121.638890 °	38	
										38.818341 °	-121.638890 °
32	10.26	10.26	Earthen Levee	Vegetation	LS Ma	M	V1 : Control annual grass and weeds on the levee slopes and easements.	38.814909 °	38.814909 °	44	
										-121.636509 °	-121.636509 °
DWR ID: DWR_RD1001_04_f_2013_37											
33	10.68	10.68	Earthen Levee	Encroachments	LS En	M	BU : Building	38.809211 °	38.809211 °	29	
										-121.633910 °	-121.633910 °
										Y	
DWR ID: DWR_RD1001_04_s_2013_29											
34	10.68	10.68	Earthen Levee	Encroachments	LS En	M	RW : Retaining Wall	38.809212 °	38.809212 °	30	
										-121.633910 °	-121.633910 °
										Y	
DWR ID: DWR_RD1001_04_s_2013_30											
35	11.15	11.15	Earthen Levee	Vegetation	LS Ma	M	V4 : Elderberries are blocking visibility and flood fight capability.	38.802508 °	38.802508 °	22	
										-121.632862 °	-121.632862 °
										Y	
DWR ID: DWR_RD1001_04_s_2012_22											
36	11.21	11.44	Supplemental	USACE Erosion Survey	WS Ma	M	Inspector Comments: 2000 - Site is relatively stable except for some toe erosion at the upstream end, recommend monitoring the upstream end. 2004 - Some new block failures (10ft deep) at the toe of the upstream end. 2007 - Some minor new slumping at the waterline. 2012: No observed change. [2012 Site ID: FHR_1-0_L]	38.800920 °	38.798165 °	7	
										-121.633050 °	-121.631939 °
										Y	
DWR ID:											
37	11.32	11.32	Earthen Levee	Vegetation	LS Ma	M	V4 : Elderberries are blocking visibility and flood fight capability.	38.800112 °	38.800112 °	23	
										-121.632242 °	-121.632242 °
										Y	
DWR ID: DWR_RD1001_04_s_2012_23											

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A/W : Acceptable but Monitor & Maintain

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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector	
LMR No.	Levee Mile		Category	Item	* Location Start	* Rating +	Action/Comment	GPS Latitude/Longitude		Issue No. Start	
	Start	End						Photo			
38	11.36	11.36	Supplemental DWR UCIP Field Study		LS En	M	Inspector Comments: FS_ID:14548 EP_NO: 3489 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - siphon breaker on the landward shoulder not found.- cracked road surface along the pipe alignment. Needs more investigations. FIELD_STRUCT_DESC: 16-inch pipe through the levee, 3.0 feet below the crown, 40-horsepower slant pump mounted on a steel structure on the bank, pipe discharges into a 36-inch concrete standpipe on the landward toe (Permit No. 3489, 1960). FS Date: 5/16/2013	38.799561 °	-121.631964 °	39	DWR ID: DWR_RD1001_04_f_2013_39
39	11.36	11.36	Supplemental DWR UCIP Field Study		LS En	M	Inspector Comments: FS_ID:14499 EP_NO: 3489 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - siphon breaker on the landward shoulder not found.- cracked road surface along the pipe alignment. Needs more investigations. FIELD_STRUCT_DESC: 16-inch pipe through the levee, 3.0 feet below the crown, 40-horsepower slant pump mounted on a steel structure on the bank, pipe discharges into a 36-inch concrete standpipe on the landward toe (Permit No. 3489, 1960). FS Date: 5/15/2013	38.799561 °	-121.631964 °	40	DWR ID: DWR_RD1001_04_f_2013_40
40	11.68	11.85	Supplemental USACE Erosion Survey		WS Ma	M	Inspector Comments: 1997- Deposits over top of cobble on the upper slope. 2000 - Old cobble site in poor shape; some toe retreat, but little change; steep bank. 2010 - Site extended upstream due to new toe erosion. 2012: Minor new erosion at toe. [2012 Site ID: FHR_0-6_L]	38.795455 °	38.793394 °	9	DWR ID:
41	12.34	12.34	Earthen Levee	Encroachments	WS En	C	TR : Tree or limb	38.787958 °	38.787958 °	32	-121.622027 ° -121.622027 ° DWR ID: DWR_RD1001_04_s_2013_32
42	12.40	12.49	Earthen Levee	Vegetation	LS Ma	M	V4 : Elderberries are blocking visibility and flood fight capability.	38.787355 °	38.786507 °	24	-121.621165 ° -121.619837 ° DWR ID: DWR_RD1001_04_s_2012_24
43	12.57	12.57	Earthen Levee	Encroachments	LS En	U	BU : Building	38.786073 °	38.786073 °	25	-121.618522 ° -121.618522 ° DWR ID: DWR_RD1001_04_s_2012_25
44	12.74	13.22	Earthen Levee	Vegetation	LS Ma	M	V4 : Elderberries are blocking visibility and flood fight capability.	38.784513 °	38.781862 °	26	-121.616045 ° -121.607855 ° DWR ID: DWR_RD1001_04_s_2012_26
45	12.76	13.21	Earthen Levee	Vegetation	WS Ma	M	V4 : Elderberries are blocking visibility and flood fight capability.	38.784579 °	38.782150 °	11	-121.615689 ° -121.607918 ° DWR ID: DWR_RD1001_04_f_2013_11

* Location LS : Land Side WS : Water Side CR : Crown

** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain
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+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector		
Unit No. 04 Feather River							Left	13.36	10/17/2013 10/17/2013	Matthew Hoffman		
LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment			GPS Latitude/Longitude		Issue No. Start End Photo
	Start	End								Start	End	
46	12.76	13.27	Earthen Levee	Vegetation	LS	M	V1 : Control annual grass and weeds on the levee slopes Ma and easements.		38.784563 ° 38.781701 ° 45 -121.615653 ° -121.606979 ° DWR ID: DWR_RD1001_04_f_2013_45			
47	12.91	12.91	Earthen Levee	Trim / Thin Trees	WS	M	T1 : Trim trees to at least five feet above ground level. Ma		38.783930 ° 38.783930 ° 151 -121.612952 ° -121.612952 ° Y DWR ID: DWR_RD1001_04_s_2012_151			

* Location LS : Land Side WS : Water Side CR : Crown

** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain
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+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.36	10/17/2013 10/17/2013	Matthew Hoffman

Levee Mile Report Line	1
Start Levee Mile	0.03
End Levee Mile	1.72
Location	Water Side
Category	Earthen Levee
Item	Vegetation

This photo shows the waterside vegetation at levee mile 0.00.

mhoffman_f_20130917_238.JPG



Levee Mile Report Line	2
Start Levee Mile	0.03
End Levee Mile	2.00
Location	Land Side
Category	Earthen Levee
Item	Vegetation

This photo shows the landside vegetation at levee mile 0.00.

mhoffman_f_20130917_237.JPG



Levee Mile Report Line	4
Start Levee Mile	2.32
End Levee Mile	2.32
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Power pole and guy wire on the levee slope.
Spring 2013

mhoffman_f_20130917_242.JPG



* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.36	10/17/2013 10/17/2013	Matthew Hoffman

Levee Mile Report Line	5
Start Levee Mile	2.66
End Levee Mile	2.66
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Buildings along the toe within the easement of the levee. Spring 2013	mhoffman_f_20130917_243.JPG



Levee Mile Report Line	6
Start Levee Mile	2.88
End Levee Mile	2.88
Location	Land Side
Category	Earthen Levee
Item	Encroachments
RD 1001 Unit 4 - L/S slope - Limb/Wood Pile.	mhoffman_f_20130917_257.JPG



Levee Mile Report Line	9
Start Levee Mile	5.05
End Levee Mile	5.05
Location	Water Side
Category	Earthen Levee
Item	Vegetation
Elderberry Spring 2013	mhoffman_f_20130917_251.JPG



* Location
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.36	10/17/2013 10/17/2013	Matthew Hoffman

Levee Mile Report Line	10
Start Levee Mile	5.07
End Levee Mile	5.07
Location	Land Side
Category	Earthen Levee
Item	Vegetation

This photo was taken from the levee crown facing west looking down at the vegetation on the landward slope.

mhoffman_f_20131018_668.JPG



Levee Mile Report Line	11
Start Levee Mile	5.60
End Levee Mile	5.60
Location	Water Side
Category	Earthen Levee
Item	Vegetation

RD 1001 Unit 4 - W/S slope - Elderberries

mhoffman_f_20130917_258.JPG



Levee Mile Report Line	12
Start Levee Mile	5.84
End Levee Mile	5.97
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #1

USACE2013_FHR_6-6_L_1.jpg



* Location
LS : Land Side
WS : Water Side
CR : Crown

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.36	10/17/2013 10/17/2013	Matthew Hoffman

Levee Mile Report Line	12
Start Levee Mile	5.84
End Levee Mile	5.97
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #2

USACE2013_FHR_6-6_L_2.jpg



Levee Mile Report Line	12
Start Levee Mile	5.84
End Levee Mile	5.97
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #3

USACE2013_FHR_6-6_L_3.jpg



Levee Mile Report Line	14
Start Levee Mile	5.84
End Levee Mile	5.84
Location	Water Side
Category	Supplemental
Item	DWR UCIP Field Study

WS- slanted pump station on steel platform on levee berm.

UCIP_7771.jpg



* Location
LS : Land Side
WS : Water Side
CR : Crown

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.36	10/17/2013 10/17/2013	Matthew Hoffman

Levee Mile Report Line	15
Start Levee Mile	6.47
End Levee Mile	6.57
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #1

USACE2013_FHR_6-0_L_1.jpg



Levee Mile Report Line	15
Start Levee Mile	6.47
End Levee Mile	6.57
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #2

USACE2013_FHR_6-0_L_2.jpg



Levee Mile Report Line	16
Start Levee Mile	6.48
End Levee Mile	6.48
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Landscaping on the landside shoulder and slope levee mile 6.48.

mhoffman_f_20130917_240.jpg



* Location
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WS : Water Side
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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.36	10/17/2013 10/17/2013	Matthew Hoffman

Levee Mile Report Line	16
Start Levee Mile	6.48
End Levee Mile	6.48
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Landscaping levee mile 6.48.	
mhoffman_f_20130917_241.jpg	



Levee Mile Report Line	17
Start Levee Mile	6.63
End Levee Mile	6.88
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #1



Levee Mile Report Line	17
Start Levee Mile	6.63
End Levee Mile	6.88
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #2



USACE2013_FHR_5-8_L_2.jpg

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway		Bank	Unit Miles	Inspection Start/End	Inspector												
Unit No. 04 Feather River		Left	13.36	10/17/2013 10/17/2013	Matthew Hoffman												
<table border="1"> <tr><td>Levee Mile Report Line</td><td>17</td></tr> <tr><td>Start Levee Mile</td><td>6.63</td></tr> <tr><td>End Levee Mile</td><td>6.88</td></tr> <tr><td>Location</td><td>Water Side</td></tr> <tr><td>Category</td><td>Supplemental</td></tr> <tr><td>Item</td><td>USACE Erosion Survey</td></tr> </table>						Levee Mile Report Line	17	Start Levee Mile	6.63	End Levee Mile	6.88	Location	Water Side	Category	Supplemental	Item	USACE Erosion Survey
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USACE 2012 Photo #3																	
USACE2013_FHR_5-8_L_3.jpg																	
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Location	Water Side																
Category	Supplemental																
Item	USACE Erosion Survey																
USACE 2012 Photo #4																	
USACE2013_FHR_5-8_L_4.jpg																	
<table border="1"> <tr><td>Levee Mile Report Line</td><td>19</td></tr> <tr><td>Start Levee Mile</td><td>6.86</td></tr> <tr><td>End Levee Mile</td><td>6.86</td></tr> <tr><td>Location</td><td>Water Side</td></tr> <tr><td>Category</td><td>Earthen Levee</td></tr> <tr><td>Item</td><td>Vegetation</td></tr> </table>		Levee Mile Report Line	19	Start Levee Mile	6.86	End Levee Mile	6.86	Location	Water Side	Category	Earthen Levee	Item	Vegetation				
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Start Levee Mile	6.86																
End Levee Mile	6.86																
Location	Water Side																
Category	Earthen Levee																
Item	Vegetation																
Revegetation site. Spring 2013																	
mhoffman_f_20130917_252.JPG																	

* Location LS : Land Side WS : Water Side CR : Crown
** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated	C : Corrected	A/W : Acceptable but Monitor & Maintain
-------------------------	---------------	---

+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.36	10/17/2013 10/17/2013	Matthew Hoffman

Levee Mile Report Line	21
Start Levee Mile	7.54
End Levee Mile	7.86
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #1



USACE2013_FHR_5-0_L_1.jpg

Levee Mile Report Line	21
Start Levee Mile	7.54
End Levee Mile	7.86
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #2



USACE2013_FHR_5-0_L_2.jpg

Levee Mile Report Line	21
Start Levee Mile	7.54
End Levee Mile	7.86
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #3



USACE2013_FHR_5-0_L_3.jpg

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.36	10/17/2013 10/17/2013	Matthew Hoffman

Levee Mile Report Line	21
Start Levee Mile	7.54
End Levee Mile	7.86
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #4



USACE2013_FHR_5-0_L_4.jpg

Levee Mile Report Line	21
Start Levee Mile	7.54
End Levee Mile	7.86
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #5



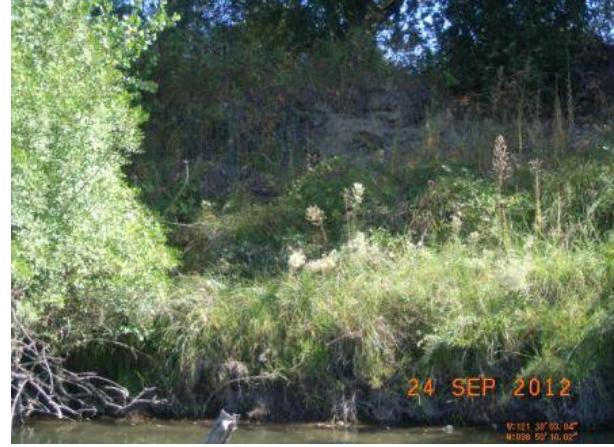
USACE2013_FHR_5-0_L_5.jpg

Levee Mile Report Line	22
Start Levee Mile	8.61
End Levee Mile	9.01
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #1



USACE2013_FHR_3-8_L_1.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.36	10/17/2013 10/17/2013	Matthew Hoffman

Levee Mile Report Line	22
Start Levee Mile	8.61
End Levee Mile	9.01
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #2

USACE2013_FHR_3-8_L_2.jpg



Levee Mile Report Line	22
Start Levee Mile	8.61
End Levee Mile	9.01
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #3

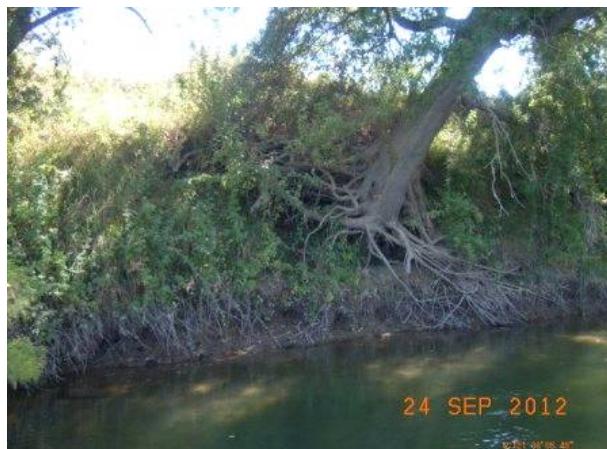
USACE2013_FHR_3-8_L_3.jpg



Levee Mile Report Line	22
Start Levee Mile	8.61
End Levee Mile	9.01
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #4

USACE2013_FHR_3-8_L_4.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.36	10/17/2013 10/17/2013	Matthew Hoffman

Levee Mile Report Line	22
Start Levee Mile	8.61
End Levee Mile	9.01
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

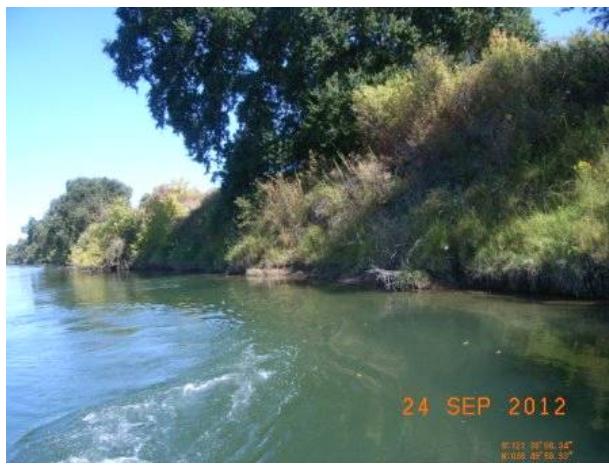
USACE 2012 Photo #5



USACE2013_FHR_3-8_L_5.jpg

Levee Mile Report Line	22
Start Levee Mile	8.61
End Levee Mile	9.01
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #6



USACE2013_FHR_3-8_L_6.jpg

Levee Mile Report Line	22
Start Levee Mile	8.61
End Levee Mile	9.01
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #7



USACE2013_FHR_3-8_L_7.jpg

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.36	10/17/2013 10/17/2013	Matthew Hoffman

Levee Mile Report Line	22
Start Levee Mile	8.61
End Levee Mile	9.01
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #8

USACE2013_FHR_3-8_L_8.jpg



Levee Mile Report Line	23
Start Levee Mile	8.72
End Levee Mile	8.72
Location	Land Side
Category	Earthen Levee
Item	Vegetation

RD 1001 Unit 4 - W/S slope - Elderberries

mhoffman_f_20130917_236.JPG



Levee Mile Report Line	24
Start Levee Mile	9.22
End Levee Mile	9.22
Location	Land Side
Category	Supplemental
Item	DWR UCIP Field Study

WS- slanted pipe in steel structure on river bank.

UCIP_7739.jpg



* Location
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WS : Water Side
CR : Crown

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.36	10/17/2013 10/17/2013	Matthew Hoffman

Levee Mile Report Line	25
Start Levee Mile	9.51
End Levee Mile	9.51
Location	Land Side
Category	Supplemental
Item	DWR UCIP Field Study
WS- damaged pipe with holes, cracks on levee slope. River bank is not visible due to dense vegetation (top)	UCIP_7720.jpg



Levee Mile Report Line	27
Start Levee Mile	9.74
End Levee Mile	9.74
Location	Water Side
Category	Earthen Levee
Item	Vegetation
RD 1001 Unit 4 - W/S slope -Landscaping/Trees	mhoffman_f_20130917_244.JPG



Levee Mile Report Line	28
Start Levee Mile	9.99
End Levee Mile	9.99
Location	Water Side
Category	Supplemental
Item	DWR UCIP Field Study
WS- abandoned slanted pump station in steel pipe structure in river bank.	UCIP_7784.jpg



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WS : Water Side
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Ob : Design & System Obsolescence
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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.36	10/17/2013 10/17/2013	Matthew Hoffman

Levee Mile Report Line	33
Start Levee Mile	10.68
End Levee Mile	10.68
Location	Land Side
Category	Earthen Levee
Item	Encroachments
The building is within the easement of the levee. Spring 2013	
mhoffman_f_20130917_253.JPG	



Levee Mile Report Line	34
Start Levee Mile	10.68
End Levee Mile	10.68
Location	Land Side
Category	Earthen Levee
Item	Encroachments
A retaining wall is within the profile of the slope. Spring 2013	
mhoffman_f_20130917_254.JPG	



Levee Mile Report Line	35
Start Levee Mile	11.15
End Levee Mile	11.15
Location	Land Side
Category	Earthen Levee
Item	Vegetation
RD 1001 Unit 4 - L/S slope - Elderberries	
mhoffman_f_20130917_245.JPG	



* Location
LS : Land Side
WS : Water Side
CR : Crown

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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.36	10/17/2013 10/17/2013	Matthew Hoffman

Levee Mile Report Line	36
Start Levee Mile	11.21
End Levee Mile	11.44
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #1



USACE2013_FHR_1-0_L_1.jpg

Levee Mile Report Line	36
Start Levee Mile	11.21
End Levee Mile	11.44
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #2



USACE2013_FHR_1-0_L_2.jpg

Levee Mile Report Line	36
Start Levee Mile	11.21
End Levee Mile	11.44
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #3



USACE2013_FHR_1-0_L_3.jpg



* Location
LS : Land Side
WS : Water Side
CR : Crown

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.36	10/17/2013 10/17/2013	Matthew Hoffman

Levee Mile Report Line	36
Start Levee Mile	11.21
End Levee Mile	11.44
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2012 Photo #4	
USACE2013_FHR_1-0_L_4.jpg	



Levee Mile Report Line	37
Start Levee Mile	11.32
End Levee Mile	11.32
Location	Land Side
Category	Earthen Levee
Item	Vegetation
RD 1001 Unit 4 - L/S slope - Elderberries	
mhoffman_f_20130917_246.JPG	



Levee Mile Report Line	39
Start Levee Mile	11.36
End Levee Mile	11.36
Location	Land Side
Category	Supplemental
Item	DWR UCIP Field Study
WS- slant pump, pipe on steel piles.	
UCIP_7704.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.36	10/17/2013 10/17/2013	Matthew Hoffman

Levee Mile Report Line	40
Start Levee Mile	11.68
End Levee Mile	11.85
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #1

USACE2013_FHR_0-6_L_1.jpg



Levee Mile Report Line	40
Start Levee Mile	11.68
End Levee Mile	11.85
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #2

USACE2013_FHR_0-6_L_2.jpg



Levee Mile Report Line	40
Start Levee Mile	11.68
End Levee Mile	11.85
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #3

USACE2013_FHR_0-6_L_3.jpg



* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
A/W : Acceptable but Monitor & Maintain

N : Not Inspected/Rated
C : Corrected

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.36	10/17/2013 10/17/2013	Matthew Hoffman

Levee Mile Report Line	40
Start Levee Mile	11.68
End Levee Mile	11.85
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #4

USACE2013_FHR_0-6_L_4.jpg



Levee Mile Report Line	40
Start Levee Mile	11.68
End Levee Mile	11.85
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #5

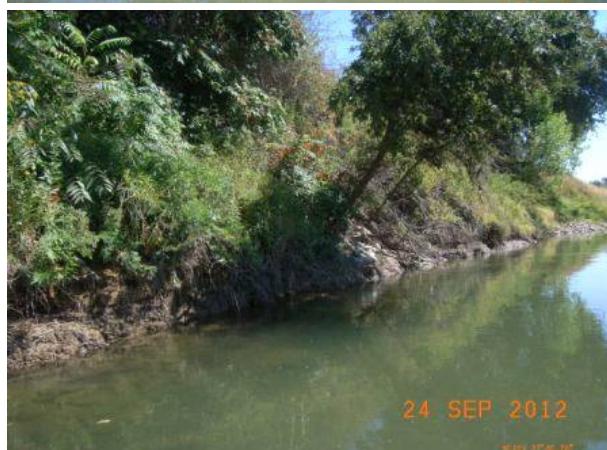
USACE2013_FHR_0-6_L_5.jpg



Levee Mile Report Line	40
Start Levee Mile	11.68
End Levee Mile	11.85
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #6

USACE2013_FHR_0-6_L_6.jpg



* Location
LS : Land Side
WS : Water Side
CR : Crown

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Ob : Design & System Obsolescence
En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.36	10/17/2013 10/17/2013	Matthew Hoffman

Levee Mile Report Line	42
Start Levee Mile	12.40
End Levee Mile	12.49
Location	Land Side
Category	Earthen Levee
Item	Vegetation
RD 1001 Unit 4 - L/S slope - Elderberries	
mhoffman_f_20130917_247.JPG	



Levee Mile Report Line	43
Start Levee Mile	12.57
End Levee Mile	12.57
Location	Land Side
Category	Earthen Levee
Item	Encroachments
A building is at the toe of the levee. Spring 2013	
mhoffman_f_20130917_248.JPG	



Levee Mile Report Line	43
Start Levee Mile	12.57
End Levee Mile	12.57
Location	Land Side
Category	Earthen Levee
Item	Encroachments
A short section of the levee (12.47-12.70) has limited access. Spring 2013	
mhoffman_f_20130917_249.JPG	



* Location
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WS : Water Side
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** Rating
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Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.36	10/17/2013 10/17/2013	Matthew Hoffman

Levee Mile Report Line	44
Start Levee Mile	12.74
End Levee Mile	13.22
Location	Land Side
Category	Earthen Levee
Item	Vegetation
RD 1001 Unit 4 - W/S slope - Elderberries	
mhoffman_f_20130917_250.JPG	



Levee Mile Report Line	45
Start Levee Mile	12.76
End Levee Mile	13.21
Location	Water Side
Category	Earthen Levee
Item	Vegetation
RD 1001 Unit 4 - W/S slope - Elderberries	
mhoffman_f_20130917_235.JPG	



Levee Mile Report Line	47
Start Levee Mile	12.91
End Levee Mile	12.91
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees
Trees need to be trimmed up at least 5 feet. Spring 2013	
mhoffman_f_20130917_259.JPG	



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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Reclamation District No. 1001 Nicolaus

Waterway			Bank	Unit Miles
Unit No. 05 Natomas Cross Canal			Right	5.44
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	05/22/2013 - 05/22/2013		10/17/2013 - 10/17/2013	
DWR Inspector	John Williamson		Matthew Hoffman	
Accompanied By	Diane Fales			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway								Bank	Unit Miles	Inspection Start/End	Inspector
LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No.	
	Start	End						Start	End		
1	0.00	0.75	Earthen Levee	Encroachments	WS En	M	PO : Pole	38.781240 °	38.790073 °	2	
								-121.605436 °	-121.598159 °	Y	
								DWR ID: DWR_RD1001_05_s_2012_2			
2	0.19	0.86	Earthen Levee	Encroachments	LS En	M	PO : Pole	38.783758 °	38.791058 °	5	
								-121.604189 °	-121.596562 °	Y	
								DWR ID: DWR_RD1001_05_s_2012_5			
3	0.77	0.77	Supplemental DWR UCIP Field Study		LS En	M	Inspector Comments: FS_ID:14306 EP_NO: 2835A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - flap gate not fully closed. FIELD_STRUCT_DESC: 2 of 2: 36-inch and 42-inch steel drainage pipes through the levee, 5.0 feet below the crown, two vertical pumps mounted on a steel structure in the drainage canal on the landward side, metal walkway to the pumps, concrete steps on the landward slope, siphon breakers on the waterward shoulder, flap gates on the waterward end (Permit Nos. 2835 and 2835A, 1958 and 1959) FS Date: 5/15/2013	38.790279 °	-121.597812 °	1	
								38.790279 °	-121.597812 °	Y	
								DWR ID: DWR_RD1001_05_f_2013_1			
4	0.78	0.78	Supplemental DWR UCIP Field Study		LS En	M	Inspector Comments: FS_ID:14307 EP_NO: 2835A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 1 of 2: 36-inch and 42-inch steel drainage pipes through the levee, 5.0 feet below the crown, two vertical pumps mounted on a steel structure in the drainage canal on the landward side, metal walkway to the pumps, concrete steps on the landward slope, siphon breakers on the waterward shoulder, flap gates on the waterward end (Permit Nos. 2835 and 2835A, 1958 and 1959) FS Date: 5/15/2013	38.790371 °	-121.597687 °	4	
								38.790371 °	-121.597687 °		
								DWR ID: DWR_RD1001_05_f_2013_4			
5	0.78	0.78	Supplemental DWR UCIP Field Study		LS En	M	Inspector Comments: FS_ID:14304 EP_NO: 2835A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - flap gate is not closed fully. FIELD_STRUCT_DESC: 1 of 2: 36-inch and 42-inch steel drainage pipes through the levee, 5.0 feet below the crown, two vertical pumps mounted on a steel structure in the drainage canal on the landward side, metal walkway to the pumps, concrete steps on the landward slope, siphon breakers on the waterward shoulder, flap gates on the waterward end (Permit Nos. 2835 and 2835A, 1958 and 1959) FS Date: 5/15/2013	38.790371 °	-121.597687 °	13	
								38.790371 °	-121.597687 °		
								DWR ID: DWR_RD1001_05_f_2013_13			

* Location
LS : Land Side
WS : Water Side
CR : Crown

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U : Unacceptable
A/W : Acceptable but Monitor & Maintain

+ Issue Type
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Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector		
LMR No.	Levee Mile		Category	Item	* Location	* Rating	Action/Comment			GPS Latitude/Longitude	Issue No.	
	Start	End					Start	End	Photo			
6	0.78	0.78	Supplemental DWR UCIP Field Study		LS En	M	Inspector Comments: FS_ID:14432 EP_NO: 2835A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - flap gate not fully closed. FIELD_STRUCT_DESC: 2 of 2: 36-inch and 42-inch steel drainage pipes through the levee, 5.0 feet below the crown, two vertical pumps mounted on a steel structure in the drainage canal on the landward side, metal walkway to the pumps, concrete steps on the landward slope, siphon breakers on the waterward shoulder, flap gates on the waterward end (Permit Nos. 2835 and 2835A, 1958 and 1959) FS Date: 5/15/2013	38.790374 °	-121.597689 °	15	38.790374 °	-121.597689 °
7	0.80	0.80	Supplemental DWR UCIP Field Study		LS En	M	Inspector Comments: FS_ID:14391 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - needs repair of concrete piers on waterside. Rebar exposed from the pier. Even though this pier is functionally not linked to the pipe, it needs repair. FIELD_STRUCT_DESC: 5 of 8: A 24-inch pipe through levee, 25 ft. below the levee crown. Five 5-foot-by-7-foot concrete tunnels through the levee, 25.0 feet below the crown, one tunnel has a 60-inch pump installed inside and is gated on the waterward end, two 50-inch pipes through the levee, 25.0 feet below the crown, all tunnels and pipes are gated, concrete headwall and railing along the landward side (R.D. No. 1001) FS Date: 5/15/2013	38.790556 °	-121.597477 °	16	38.790556 °	-121.597477 °
8	0.80	0.80	Supplemental DWR UCIP Field Study		LS En	M	Inspector Comments: FS_ID:14393 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - needs repair of concrete piers on waterside. Rebar exposed from the pier. Even though this pier is functionally not linked to the pipe, it needs repair. FIELD_STRUCT_DESC: 5 of 8: A 24-inch pipe through levee, 25 ft. below the levee crown. Five 5-foot-by-7-foot concrete tunnels through the levee, 25.0 feet below the crown, one tunnel has a 60-inch pump installed inside and is gated on the waterward end, two 50-inch pipes through the levee, 25.0 feet below the crown, all tunnels and pipes are gated, concrete headwall and railing along the landward side (R.D. No. 1001) FS Date: 5/15/2013	38.790556 °	-121.597477 °	17	38.790556 °	-121.597477 °
9	0.83	0.83	Earthen Levee	Encroachments	WS En	M	BU : Building			38.790830 °	38.790830 °	
										-121.596973 °	-121.596973 °	
										DWR ID: DWR_RD1001_05_s_2012_3		

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating	+ Issue Type
A : Acceptable	Ma : Maintenance Deficiency
M : Minimally Acceptable	Ob : Design & System Obsolescence
U : Unacceptable	En : Enforcement
A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector	
LMR No.	Levee Mile		Category	Item	* Location	* Rating	Action/Comment			GPS Latitude/Longitude	Issue No.
	Start	End					Start	End	Photo		
10	1.15	1.15	Earthen Levee	Encroachments	LS En	M	PO : Pole			38.793613 ° -121.592230 °	38.793613 ° -121.592230 ° Y
										DWR ID: DWR_RD1001_05_s_2012_6	
11	1.64	1.64	Earthen Levee	Vegetation	LS Ma	A/W	V1 : Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Vegetation on the landward slope.			38.797858 ° -121.585157 °	38.797858 ° -121.585157 ° Y
										DWR ID: DWR_RD1001_05_f_2013_23	
12	2.31	2.31	Supplemental USACE Erosion Survey	WS	Ma	M	Inspector Comments: 2006 - Noted old saturation slumping of upper levee slope that is into the levee core (near high water line). 2011 - Erosion is into the top of the levee. This site is actually located at LM 2.5. 2012: Site is part of the extended inventory, last inspected 2011. [2012 Site ID: NCC_3-0_R]			38.804206 ° -121.574529 °	38.803877 ° -121.575053 °
										DWR ID:	
13	3.59	3.85	Earthen Levee	Encroachments	LS En	M	PO : Pole			38.814919 ° -121.556712 °	38.817178 ° -121.552965 ° Y
										DWR ID: DWR_RD1001_05_s_2012_7	
14	3.69	3.69	Earthen Levee	Encroachments	WSA/W En		PI : Pipe			38.815737 ° -121.555338 °	38.815737 ° -121.555338 ° Y
										DWR ID: DWR_RD1001_05_s_2012_8	
15	3.73	3.73	Earthen Levee	Encroachments	WSA/W En		PI : Pipe			38.816155 ° -121.554650 °	38.816155 ° -121.554650 ° Y
										DWR ID: DWR_RD1001_05_s_2012_9	
16	3.85	3.85	Earthen Levee	Encroachments	WSA/W En		PI : Pipe			38.817177 ° -121.552967 °	38.817177 ° -121.552967 ° Y
										DWR ID: DWR_RD1001_05_s_2012_11	
17	3.85	3.85	Earthen Levee	Encroachments	LS En	M	TA : Tank			38.817178 ° -121.552965 °	38.817178 ° -121.552965 ° Y
										DWR ID: DWR_RD1001_05_s_2012_10	
18	3.85	3.85	Supplemental DWR UCIP Field Study	LS En	M	EP_NO: 1896	Inspector Comments: FS_ID:14471 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - abandoned steel pipe.- may need to remove it or properly adandoned. FIELD_STRUCT_DESC: 1 of 3: Abandoned 20-inch steel pipe of three pipes (a 30-inch and two 20-inch corrugated-metal asbestos-bonded pipe) through the levee, 2.13 feet below the crown, three vertical pumps on a wooden piling structure in the stream, walkway to the pumps, slide gate in a concrete box on the waterward side (Permit No. 1896) FS Date: 5/15/2013			38.817175 ° -121.552946 °	38.817175 ° -121.552946 °
										DWR ID: DWR_RD1001_05_f_2013_18	

* Location LS : Land Side WS : Water Side CR : Crown

** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain
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+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal						Right	5.44	10/17/2013 10/17/2013	Matthew Hoffman

LMR No.	Levee Mile		Category	Item	* Location	* Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
19	3.85	3.85	Supplemental	DWR UCIP Field Study	LS En	M	Inspector Comments: FS_ID:14469 EP_NO: 1896 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - abandoned steel pipe.- may need to remove it or properly adandoned. FIELD_STRUCT_DESC: 1 of 3: Abandoned 20-inch steel pipe of three pipes (a 30-inch and two 20-inch corrugated-metal asbestos-bonded pipe) through the levee, 2.13 feet below the crown, three vertical pumps on a wooden piling structure in the stream, walkway to the pumps, slide gate in a concrete box on the waterward side (Permit No. 1896) FS Date: 5/15/2013	38.817175 °	-121.552946 °	19
								38.817175 °	-121.552946 °	Y
20	3.85	3.85	Supplemental	DWR UCIP Field Study	LS En	M	Inspector Comments: FS_ID:14486 EP_NO: 1896 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - slide gate in concrete box on waterside levee toe.- cracked headwall on landside- working during field survey- abandoned steel pipe, may need to remove it or properly adandoned. FIELD_STRUCT_DESC: 3 of 3: Abandoned 20-inch pipe of three pipes, a 30-inch and two 20-inch corrugated-metal asbestos-bonded pipe through the levee, 2.13 feet below the crown, three vertical pumps on a wooden piling structure in the stream, walkway to the pumps, slide gate in a concrete box on the waterward side (Permit No. 1896) FS Date: 5/15/2013	38.817175 °	-121.552946 °	20
								38.817175 °	-121.552946 °	

DWR ID: DWR_RD1001_05_f_2013_19

21	3.85	3.85	Supplemental	DWR UCIP Field Study	LS En	M	Inspector Comments: FS_ID:14484 EP_NO: 1896 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - slide gate in concrete box on waterside levee toe.- cracked headwall on landside- working during field survey FIELD_STRUCT_DESC: 1 of 3: A 20-inch steel pipe of three pipes (a 30-inch and two 20-inch corrugated-metal asbestos-bonded pipe) through the levee, 2.13 feet below the crown, three vertical pumps on a wooden piling structure in the stream, walkway to the pumps, slide gate in a concrete box on the waterward side (Permit No. 1896) FS Date: 5/15/2013	38.817175 °	-121.552946 °	21
								38.817175 °	-121.552946 °	

DWR ID: DWR_RD1001_05_f_2013_20

DWR ID: DWR_RD1001_05_f_2013_21

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating	A : Acceptable	N : Not Inspected/Rated	+ Issue Type
	M : Minimally Acceptable	C : Corrected	Ma : Maintenance Deficiency
	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	Ob : Design & System Obsolescence
			En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector	
LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment			GPS Latitude/Longitude	Issue No.
	Start	End					Start	End	Photo		
22	3.85	3.85	Supplemental DWR UCIP Field Study		CR M En	Inspector Comments: FS_ID:14472 EP_NO: 1896 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - slide gate in concrete box on waterside levee toe.- cracked headwall on landside- working during field survey FIELD_STRUCT_DESC: 2 of 3: Three pipes, a 32-inch and two 20-inch steel pipe through the levee, 2.13 feet below the crown, two vertical pumps on a wooden piling structure in the stream, walkway to the pumps, slide gate in a concrete box on the waterward side (Permit No. 1896) FS Date: 5/15/2013			38.817175 ° -121.552946 °	38.817175 ° -121.552946 °	22
23	4.65	4.94	Earthen Levee	Vegetation	CR C Ma	V9 : Keep the crown roadway free of vegetation.				38.824227 ° 38.826716 ° -121.541259 ° -121.537090 °	12
										DWR ID: DWR_RD1001_05_f_2013_22	
										DWR ID: DWR_RD1001_05_s_2013_12	

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WS : Water Side
CR : Crown

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.44	10/17/2013 10/17/2013	Matthew Hoffman

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.75
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Poles on the water side shoulder levee mile 0.00 - 0.75	mhoffman_f_20130917_260.jpg



Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.75
Location	Water Side
Category	Earthen Levee
Item	Encroachments
RD 1001 Unit 5 - W/S Levee Shoulder - Poles	mhoffman_f_20130917_261.JPG



Levee Mile Report Line	2
Start Levee Mile	0.19
End Levee Mile	0.86
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Poles at the land side toe levee mile 0.19 - 0.86.	mhoffman_f_20130917_264.jpg



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WS : Water Side
CR : Crown

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C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.44	10/17/2013 10/17/2013	Matthew Hoffman

Levee Mile Report Line	2
Start Levee Mile	0.19
End Levee Mile	0.86
Location	Land Side
Category	Earthen Levee
Item	Encroachments
RD 1001 Unit 5 - L/S Levee Toe - Poles	
mhoffman_f_20130917_265.JPG	



Levee Mile Report Line	3
Start Levee Mile	0.77
End Levee Mile	0.77
Location	Land Side
Category	Supplemental
Item	DWR UCIP Field Study
LS- pumps, pipes, and walkway	
UCIP_7604.jpg	



Levee Mile Report Line	8
Start Levee Mile	0.80
End Levee Mile	0.80
Location	Land Side
Category	Supplemental
Item	DWR UCIP Field Study
WS- three steel pipes inside tunnel. Fifty inch pipes on left and right. Twenty four inch pipe in middle of the structure as shown.	
UCIP_7675.jpg	



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Ob : Design & System Obsolescence
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.44	10/17/2013 10/17/2013	Matthew Hoffman

Levee Mile Report Line	9
Start Levee Mile	0.83
End Levee Mile	0.83
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Pump house on the water side levee mile 0.83.	mhoffman_f_20130917_262.jpg



Levee Mile Report Line	9
Start Levee Mile	0.83
End Levee Mile	0.83
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Pump house and Caretakers home levee mile 0.83	mhoffman_f_20130917_263.jpg



Levee Mile Report Line	10
Start Levee Mile	1.15
End Levee Mile	1.15
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Pole on land side shoulder levee mile 1.15.	mhoffman_f_20130917_266.jpg



* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
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M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.44	10/17/2013 10/17/2013	Matthew Hoffman

Levee Mile Report Line	10
Start Levee Mile	1.15
End Levee Mile	1.15
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Pole on land side shoulder.	
mhoffman_f_20130917_267.jpg	



Levee Mile Report Line	11
Start Levee Mile	1.64
End Levee Mile	1.64
Location	Land Side
Category	Earthen Levee
Item	Vegetation
This photo was taken from the levee crown facing east looking at the vegetation on the landward slope.	
mhoffman_f_20131018_669.JPG	



Levee Mile Report Line	13
Start Levee Mile	3.59
End Levee Mile	3.85
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Poles on the land side shoulder levee mile 3.59 - 3.85.	
mhoffman_f_20130917_268.jpg	



* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
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U : Unacceptable

N : Not Inspected/Rated
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A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.44	10/17/2013 10/17/2013	Matthew Hoffman

Levee Mile Report Line	14
Start Levee Mile	3.69
End Levee Mile	3.69
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Pump water side levee mile 3.69.	
mhoffman_f_20130917_269.jpg	



Levee Mile Report Line	15
Start Levee Mile	3.73
End Levee Mile	3.73
Location	Water Side
Category	Earthen Levee
Item	Encroachments
RD 1001 Unit 5 - W/S slope -Equipment & Portable Tank	
mhoffman_f_20130917_270.JPG	



Levee Mile Report Line	15
Start Levee Mile	3.73
End Levee Mile	3.73
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Concrete distribution box on the landside levee slope. Spring 2013	
mhoffman_f_20130917_271.JPG	



* Location LS : Land Side WS : Water Side CR : Crown
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.44	10/17/2013 10/17/2013	Matthew Hoffman

Levee Mile Report Line	16
Start Levee Mile	3.85
End Levee Mile	3.85
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Pump and pipe through the levee with positive closure on the waterside. Spring 2013	mhoffman_f_20130917_273.JPG



Levee Mile Report Line	17
Start Levee Mile	3.85
End Levee Mile	3.85
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Storage tank on land side slope levee mile 3.85.	mhoffman_f_20130917_272.jpg



Levee Mile Report Line	19
Start Levee Mile	3.85
End Levee Mile	3.85
Location	Land Side
Category	Supplemental
Item	DWR UCIP Field Study
LS- headwall and irrigation ditch on levee toe (top)	UCIP_7680.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Reclamation District No. 1001 Nicolaus

Waterway			Bank	Unit Miles
Unit No. 06 East Side Canal			Right	4.80
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	05/22/2013 - 05/22/2013		10/17/2013 - 10/17/2013	
DWR Inspector	John Williamson		Matthew Hoffman	
Accompanied By	Diane Fales			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway								Bank	Unit Miles	Inspection Start/End	Inspector
LMR No.	Levee Mile		Category	Item	* Location	* Rating	Action/Comment	GPS Latitude/Longitude		Issue No.	
	Start	End						Start	End		
1	0.95	0.95	Earthen Levee	Encroachments	LS En	M	TA : Tank	38.844013 °	38.844013 °	46	
								-121.524320 °	-121.524320 °	Y	
								DWR ID: DWR_RD1001_06_s_2012_46			
2	1.06	1.06	Earthen Levee	Vegetation	LS En	M	V6 : Landscaping	38.845643 °	38.845643 °	5	
								-121.524363 °	-121.524363 °	Y	
								DWR ID: DWR_RD1001_06_s_2012_5			
3	1.37	1.37	Earthen Levee	Encroachments	LS En	M	EQ : Equipment	38.850042 °	38.850042 °	6	
								-121.524359 °	-121.524359 °	Y	
								DWR ID: DWR_RD1001_06_s_2012_6			
4	1.39	1.39	Earthen Levee	Trim / Thin Trees	CR Ma	M	T4 : Trim trees over roadway to at least 12 feet above ground level.	38.850300 °	38.850300 °	9	
								-121.524388 °	-121.524388 °		
								DWR ID: DWR_RD1001_06_s_2013_9			
5	1.45	1.45	Earthen Levee	Encroachments	LS En	M	EQ : Equipment	38.851272 °	38.851272 °	3	
								-121.524357 °	-121.524357 °	Y	
								DWR ID: DWR_RD1001_06_s_2012_3			
6	1.73	1.73	Supplemental DWR UCIP Field Study	LS En	M	Inspector Comments: FS_ID:14244 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - visible damage to pipe on opening at inlet due to high corrosion.- video inspection recommended. FIELD_STRUCT_DESC: 36-inch corrugated-metal drainage pipe through the levee, 12.5 feet below the crown, slide gate in a 48-inch corrugated-metal pipe riser on the waterward slope, concrete headwall at the landward toe, the pipe crosses under the channel. FS Date: 5/15/2013			38.855186 °	-121.524895 °	2
								38.855186 °	-121.524895 °	Y	
								DWR ID: DWR_RD1001_06_f_2013_2			
7	1.73	1.73	Supplemental DWR UCIP Field Study	LS En	M	Inspector Comments: FS_ID:14243 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - visible damage to pipe on opening at inlet due to high corrosion. FIELD_STRUCT_DESC: 36-inch corrugated-metal drainage pipe through the levee, 12.5 feet below the crown, slide gate in a 48-inch corrugated-metal pipe riser on the waterward slope, concrete headwall at the landward toe, the pipe crosses under the channel. FS Date: 5/15/2013			38.855186 °	-121.524895 °	4
								38.855186 °	-121.524895 °		
								DWR ID: DWR_RD1001_06_f_2013_4			

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
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A/W : Acceptable but Monitor & Maintain

+ Issue Type
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Ob : Design & System Obsolescence
En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
LMR No.	Levee Mile		Category	Item	* Location Start	* Rating +	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
8	2.03	2.03	Supplemental DWR UCIP Field Study		CR M En		Inspector Comments: FS_ID:14223 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - pipe burried/submerged on LS- needs cleaning of LS pipe end opening. FIELD_STRUCT_DESC: 24-inch corrugated-metal drainage pipe through the levee, 15.5 feet below the crown, slide gate in a 36-inch corrugated-metal pipe riser on the waterward slope, concrete headwall at the landward toe, the pipe crosses under the channel FS Date: 5/15/2013	38.859601 °	-121.524885 °	10
								38.859601 °	-121.524885 °	Y
9	2.06	2.06	Earthen Levee	Slope Stability	CR M Ma		S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible. Inspector Comments: Subsidence due to traffic across levee crown.	38.860002 °	38.860002 °	8
								-121.524873 °	-121.524873 °	Y
										DWR ID: DWR_RD1001_06_s_2012_8
10	2.29	2.29	Supplemental DWR UCIP Field Study		CR U En		Inspector Comments: FS_ID:14204 EP_NO: 12208 Repair Type: Urgent Crossing Status: Found UCIP Comments: - large pit at pipe daylight on WS berm, may be due to pipe leakage.- siphon breaker on LS shoulder not found. FIELD_STRUCT_DESC: 16-inch irrigation pipe through the levee, 3.0 feet below the crown, 16-inch low-lift pump in the channel, 36-inch corrugated-metal pipe riser on the bank, siphon breaker on the landward shoulder (Permit No. 12208, 1977) FS Date: 5/15/2013	38.863385 °	-121.524866 °	11
								38.863385 °	-121.524866 °	
										DWR ID: DWR_RD1001_06_f_2013_11
11	2.29	2.29	Supplemental DWR UCIP Field Study		CR U En		Inspector Comments: FS_ID:14203 EP_NO: 12208 Repair Type: Urgent Crossing Status: Found UCIP Comments: - large pit at pipe daylight on WS berm, may be due to pipe leakage. FIELD_STRUCT_DESC: 16-inch irrigation pipe through the levee, 3.0 feet below the crown, 16-inch low-lift pump in the channel, 36-inch corrugated-metal pipe riser on the bank, siphon breaker on the landward shoulder (Permit No. 12208, 1977) FS Date: 5/15/2013	38.863385 °	-121.524866 °	12
								38.863385 °	-121.524866 °	
										DWR ID: DWR_RD1001_06_f_2013_12

* Location LS : Land Side WS : Water Side CR : Crown

** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain
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+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector			
L/MR No	Levee Mile		Category	Item	* Location	** Rating	Action/Comment			GPS Latitude/Longitude	Issue No.		
	Start	End					Start	End	Photo				
12	3.28	3.28	Supplemental	DWR UCIP Field Study	CR	M En	Inspector Comments: FS_ID:14146 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - pipe opens in irrigation ditch on landside.- vegetation cleaning on LS pipe opening. FIELD_STRUCT_DESC: 24-inch corrugated-metal drainage pipe through the levee, 12.0 feet below the crown, slide gate in a 36-inch corrugated-metal pipe riser on the waterward slope, concrete headwall at the landward toe, the pipe crosses under the channel FS Date: 5/15/2013	38.877691 °	-121.524766 °	13	38.877691 °	-121.524766 °	Y
13	3.29	3.29	Supplemental	DWR UCIP Field Study	CR	M En	Inspector Comments: FS_ID:14165 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - pipe opens in irrigation ditch on landside.- vegetation cleaning on LS pipe opening. FIELD_STRUCT_DESC: 24-inch corrugated-metal drainage pipe through the levee, 12.0 feet below the crown, slide gate in a 36-inch corrugated-metal pipe riser on the waterward slope, concrete headwall at the landward toe, the pipe crosses under the channel FS Date: 5/15/2013	38.877691 °	-121.524766 °	14	38.877691 °	-121.524766 °	
14	3.29	3.29	Supplemental	DWR UCIP Field Study	CR	M En	Inspector Comments: FS_ID:14167 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - pipe opens in irrigation ditch on landside.- vegetation cleaning on LS pipe opening. FIELD_STRUCT_DESC: 24-inch corrugated-metal drainage pipe through the levee, 12.0 feet below the crown, slide gate in a 36-inch corrugated-metal pipe riser on the waterward slope, concrete headwall at the landward toe, the pipe crosses under the channel FS Date: 5/15/2013	38.877706 °	-121.524787 °	15	38.877706 °	-121.524787 °	
15	3.44	3.44	Supplemental	DWR UCIP Field Study	CR	M En	Inspector Comments: FS_ID:13523 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - needs filling/plugging gap between 4-inch and 10-inch pipes. FIELD_STRUCT_DESC: 1 of 2: A capped 4-inch steel pipe sleeved through a 10-inch steel pipe, located just off the top of the slope on waterside of the levee. FS Date: 5/15/2013	38.879960 °	-121.524780 °	16	38.879960 °	-121.524780 °	Y

DWR ID: DWR_RD1001_06_f_2013_13

DWR ID: DWR_RD1001_06_f_2013_14

DWR ID: DWR_RD1001_06_f_2013_15

DWR ID: DWR_RD1001_06_f_2013_16

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating	+ Issue Type
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway								Bank	Unit Miles	Inspection Start/End	Inspector
LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No.	
	Start	End						Start	End		
16	3.60	3.60	Supplemental DWR UCIP Field Study	CR M En	Inspector Comments: FS_ID:13509 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Only a small section of head wall visible, almost buried. FIELD_STRUCT_DESC: 24-inch corrugated-metal drainage pipe through the levee, 12.0 feet below the crown, slide gate in a 36-inch corrugated-metal pipe riser on the waterward slope, concrete headwall at the landward toe, the pipe crosses under the channel FS Date: 5/15/2013			38.882247 °	-121.524762 °	17	
								38.882247 °	-121.524762 °	Y	
17	3.70	3.70	Earthen Levee	Encroachments LS En	WL : Wall			38.883804 °	38.883804 °	48	
								-121.524766 °	-121.524766 °	Y	
								DWR ID: DWR_RD1001_06_s_2012_48			
18	3.93	3.93	Supplemental DWR UCIP Field Study	LS En	Inspector Comments: FS_ID:13485 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: - mud/soil debris on LS pipe end.- highly corroded pipe in outlet.- may require video inspection or pressure test. FIELD_STRUCT_DESC: 24-inch corrugated-metal drainage pipe through the levee, 12.2 feet below the crown, slide gate in a 36-inch corrugated-metal pipe riser on the waterward slope, concrete headwall at the landward toe, the pipe crosses under the channel FS Date: 5/15/2013				38.887003 °	-121.524746 °	18
								38.887003 °	-121.524746 °	Y	
								DWR ID: DWR_RD1001_06_f_2013_18			
19	4.05	4.05	Earthen Levee	Slope Stability CR Ma	S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible. Inspector Comments: Levee crown subsided due to vehicle traffic across crown.			38.888821 °	38.888821 °	7	
								-121.524733 °	-121.524733 °	Y	
								DWR ID: DWR_RD1001_06_s_2012_7			
20	4.35	4.35	Earthen Levee	Slope Stability CR Ma	S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible. Inspector Comments: Levee crown subsided due to vehicle traffic across crown.			38.893114 °	38.893114 °	19	
								-121.524715 °	-121.524715 °	Y	
								DWR ID: DWR_RD1001_06_f_2013_19			

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En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.80	10/17/2013 10/17/2013	Matthew Hoffman

Levee Mile Report Line	1
Start Levee Mile	0.95
End Levee Mile	0.95
Location	Land Side
Category	Earthen Levee
Item	Encroachments
A propane tank is within the easement of the levee. Spring 2013	
mhoffman_f_20130917_281.JPG	



Levee Mile Report Line	2
Start Levee Mile	1.06
End Levee Mile	1.06
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Landscaping on the landside slope LM 1.06.	
mhoffman_f_20130917_276.jpg	



Levee Mile Report Line	3
Start Levee Mile	1.37
End Levee Mile	1.37
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Equipment at the landside toe LM 1.37.	
mhoffman_f_20130917_277.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.80	10/17/2013 10/17/2013	Matthew Hoffman

Levee Mile Report Line	5
Start Levee Mile	1.45
End Levee Mile	1.45
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Equipment at the landside toe LM 1.45.	
mhoffman_f_20130917_275.jpg	



Levee Mile Report Line	6
Start Levee Mile	1.73
End Levee Mile	1.73
Location	Land Side
Category	Supplemental
Item	DWR UCIP Field Study
WS- slide gate in CMP riser on levee slope.	
UCIP_7591.jpg	



Levee Mile Report Line	8
Start Levee Mile	2.03
End Levee Mile	2.03
Location	Land Side
Category	Supplemental
Item	DWR UCIP Field Study
WS- slide gate in CMP riser on levee slope.	
UCIP_7583.jpg	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.80	10/17/2013 10/17/2013	Matthew Hoffman

Levee Mile Report Line	9
Start Levee Mile	2.06
End Levee Mile	2.06
Location	Crown
Category	Earthen Levee
Item	Slope Stability
RD 1001 Unit 6 - Levee Crown - Subsidence due to vehicle traffic.	
mhoffman_f_20130917_279.JPG	



Levee Mile Report Line	12
Start Levee Mile	3.28
End Levee Mile	3.28
Location	Crown
Category	Supplemental
Item	DWR UCIP Field Study
LS- CMP opens in irrigation ditch.	
UCIP_7562.jpg	



Levee Mile Report Line	15
Start Levee Mile	3.44
End Levee Mile	3.44
Location	Crown
Category	Supplemental
Item	DWR UCIP Field Study
WS- gap between two pipes needs to be filled.	
UCIP_7324.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.80	10/17/2013 10/17/2013	Matthew Hoffman

Levee Mile Report Line	16
Start Levee Mile	3.60
End Levee Mile	3.60
Location	Crown
Category	Supplemental
Item	DWR UCIP Field Study
WS- fixed slide gate in CMP riser on levee slope.	UCIP_7323.jpg



Levee Mile Report Line	17
Start Levee Mile	3.70
End Levee Mile	3.70
Location	Land Side
Category	Earthen Levee
Item	Encroachments
RD 1001 Unit 6 - L/S Slope - Pole	mhoffman_f_20130917_282.JPG



Levee Mile Report Line	18
Start Levee Mile	3.93
End Levee Mile	3.93
Location	Land Side
Category	Supplemental
Item	DWR UCIP Field Study
WS- slide gate, air vent in CMP riser on levee slope	UCIP_7308.jpg



* Location LS : Land Side WS : Water Side CR : Crown

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.80	10/17/2013 10/17/2013	Matthew Hoffman

Levee Mile Report Line	19
Start Levee Mile	4.05
End Levee Mile	4.05
Location	Crown
Category	Earthen Levee
Item	Slope Stability
RD 1001 Unit 6 - Levee Crown - Subsidence due to vehicle traffic.	
mhoffman_f_20130917_278.JPG	



Levee Mile Report Line	20
Start Levee Mile	4.35
End Levee Mile	4.35
Location	Crown
Category	Earthen Levee
Item	Slope Stability
This photo was taken from the levee crown facing north looking at subsidence due to vehicle traffic across crown. Fall 2013.	
mhoffman_f_20131028_683.JPG	



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